

CELEBRATING 40 YEARS IN ELECTRONICS



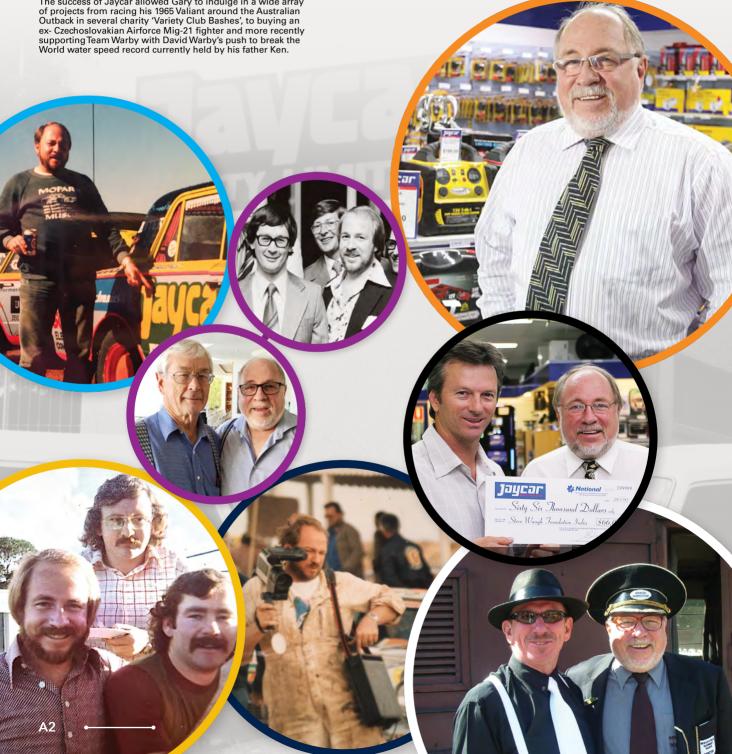


TRIBUTE TO OUR FOUNDER — GARY JOHNSTON

Gary Johnston, who passed away after a short illness on 10th March 2021, lived by the old adage that if you do what you love you'll never work a day in your life. That life began in an extremely modest house in the western suburbs of Sydney where he frequented the Concord tip to scavenge discarded parts from AWA and Phillips. As a teen he built amplifiers whose quality belied the origins of their construction. His passion for hobbyist electronics begun at an early age. Working for Philips and CEMA brought him to the attention of a young Dick Smith. In 1975 Gary started working side by side with Dick and eventually rose to the role of Marketing Manager for Dick Smith Electronics. Upon selling DSE to Woolworths in 1980 it was Dick who left an advertisement on Gary's desk for a business that was for sale in the Sydney CBD, John Carr and Co. Gary bought that business in 1981, changed the name to Jaycar, and began to transform a single showroom into Jaycar Electronics. At the time of Gary's death in March 2021 the Jaycar Group included over 150 stores across Australia and New Zealand.

The success of Jaycar allowed Gary to indulge in a wide array of projects from racing his 1965 Valiant around the Australian Outback in several charity 'Variety Club Bashes', to buying an ex-Czechoslovakian Airforce Mig-21 fighter and more recently supporting Team Warby with David Warby's push to break the World water speed record currently held by his father Ken.

His most recent passion and perhaps his most significant was his creation of 'Submarines for Australia', an effort to lobby the Australian Government to scrap its planned \$90billion+ project to acquire French Nuclear Submarines and retro fit them with diesel engines and to embrace nuclear power. In an amazing coincidence Gary's lobbying efforts were realised when on 16th September 2021, his birthday, it was announced that the Australian Government would purchase 8 Nuclear Submarines using top of the line US technology. Gary would have been proud beyond belief to have seen his efforts culminate in this announcement. Gary is survived by his loving wife Kerry, children Chris, Tim, Jeni and Robbie and 6 grandchildren. We all miss him terribly but could not be more proud of the man who started life in a 2-bedroom cottage in Mortlake to rise to one of the most successful businessmen in Australia. A self-made man the likes of whom they don't make anymore.



The Johnston Family

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Search, browse & buy anytime, anywhere.

Everything you could need in one convenient place - a convenient resource for all things Jaycar and related.





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Products with this icon are not stocked in all stores but are easily special ordered in-store or online.



This is a brand new product for the Jaycar 2021/22 Catalogue. We're excited to bring it into our range!



A video providing more information is available on our website and our YouTube channel.

More information, specs, drivers,



These icons indicate the Warranty of a product, or if located on the top right hand corner of a page, the Warranty for all the products on that page. Warranty only covers faults in

manufacture, unless stated otherwise.



are available on our website. This product includes some components that you have to build or assemble yourself.

or manuals for this product



Raspberry Pi Compatible





COMPATABILITY ICONS:

To assist you in selecting compatible products for your preferred microcontroller. we have created two icons. They should help you select appropriate modules and hardware. If in doubt, ask our friendly team.



earn more with our vast range of books. Look out for this book icon or see our index on page 543. We've permanently dropped

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New Products
We have added many great
new products this year.
Here are some of them!





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12.8V 100AH LITHIUM SLIMLINE DEEP CYCLE



BATTERY WITH METAL CASE SB2220, PAGE B16

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300W MULTI-FUNCTION PORTABLE POWER CENTRE WITH **PURE SINE WAVE INVERTER** MB3767, PAGE B51



12V 1000A JUMP STARTER & POWERBANK WITH 10W **WIRELESS QI CHARGER**

MB3766, PAGE B85

HARDCORE ELECTRONICS

CABLES AND CONNECTORS
COMPONENTS
ELECTROMECHANICAL
PROJECTS AND LEARNING
WORKBENCH EQUIPMENT

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THE TEST OF TIME

Since the very first Jaycar catalogue in 1981, we have scoured the globe for the best tools and hardware for all sorts of electronics projects.

While our range has certainly evolved as technology has, there are some items which were great then, and they're great now.

CMOS ICs, PCB hardware, plugs and sockets, are just a handful of our products which have stood the test of time and have been ranged for 40yrs.

While we continue to look for innovations to bring you the latest products too, we thoroughly enjoy seeing these items which are in effect timeless. They're often still as versatile as they were 40yrs ago, even if the project you're building is very different.



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ANYCUBIC Mono UV Photon Resin 3D Printer

Create highly detailed 3D prints with this Photon Mono resin printer by Anycubic. Unlike filament (FDM) type 3D printers, this resin printer uses UV light that passes through its high resolution LCD screen to cure the resin layer by layer where it is needed. This method produces a much more detailed and smooth print with less visible print layers.

The Photon Mono features a 6" monochrome 2K LCD for detailed prints up to 130mm long by 80mm wide. The two high quality Z-axis rails provide build heights up to 165mm high with layer resolutions between 0.01 and 0.15mm. Thanks to the monochrome LCD, exposure times are reduced to just 1.5 seconds per layer so you can achieve print speeds up to 55mm per hour. The monochrome screen also provides up to 2000 hours of print time, which is four times longer than colour LCDs. To operate the printer, simply use the Anycubic slicer software to prepare and save the model to the supplied USB thumb drive, which you insert into the USB port on the printer. Use the 2.8" touchscreen to operate and monitor your printer's progress. The Anycubic slicer software supports up to 16 times anti-aliasing, with fast slicing, hallowing, split model, and text paste features. Other features include quick FEP

replacement, UV-blocking top cover, matrix parallel light for uniform exposure, and top cover detection that stops the printing if the cover is removed.

Resin in multiple colours is sold separately.

- 6" 2K Mono LCD
 Quick FEP Replacement
 Fast Printing Speed
 High Quality Z-axis

2K Resin 3D Printer

Ideal for fine detail compared to filament 3D Printers

ANYCUBIC

Specifications	TL4422
Layer Thickness	0.01mm - 0.15mm
XY Res	0.051mm 2560 x 1620 (2K)
Z Axis Res	0.01mm
Printing Speed	50mm/hr max.
Material	405nm UV Resin
System	ANYCUBIC Photon Mono
Operation	2.8 inch Touch Screen
Software	ANYCUBIC Photon workshop
Connectivity	USB / Wi-Fi
Technology	LCD-based SLA
Light Source	High-quality filament (wavelength 405nm)
Build Volume	165(H) x 130(L) x 80(W)mm
Dimensions	383(H) x 227(D) x 222(W)mm



\$589.00

RESIN 3D PRINTERS CONTINUED

ANYCUBIC 4K Mono X UV Photon Resin 3D Printer

The 4K Mono X printer takes resin-based 3D printing to the next level. Using a 4K resolution 8.9" monochrome LCD this unit produces a higher quality, more detailed printed model with improved accuracy and in a faster print time than previous models. The larger size allows a larger build volume and bigger models.

Unlike filament (FDM) type 3D printers, this resin printer uses UV light that passes through its 4K high resolution LCD screen to cure the resin layer by layer where it is needed. Compared to FDM this method produces a more detailed and smooth print with less visible print layers.

The Photon Mono allows detailed prints up to 192mm long by 120mm wide. The two high quality Z-axis rails provide build heights up to 245mm high with layer resolutions between 0.01 and 0.15mm. Thanks to the monochrome LCD, exposure times are reduced to just 1.5 seconds per layer so you can achieve print speeds of up to 60mm per hour. The monochrome screen also provides up to 2000 hours of print time, which is four times longer than colour LCDs.

To operate the printer, simply use the Anycubic slicer software to prepare and save the model to the supplied USB thumb drive, which you insert into the USB port on the printer. Use the 3.5" touchscreen to operate and monitor your printer's progress.

The Anycubic slicer software supports up to 16 times anti-aliasing (smoothing), with fast slicing, hallowing, split model, and text paste features. The mobile app allows remote monitoring and management of print jobs

Other features include quick FEP replacement, UV-blocking top cover, matrix parallel light for uniform exposure, and top cover detection that stops the printing if the cover is removed.

Resin in multiple colours is sold separately.

- 8.9" 4K Monochrome LCD
- Quick FEP Replacement
- Fast Printing Speed
- High Quality Z-axis







ANYCUBIC

Specifications	TL4421
Layer Thickness	0.01mm - 0.15mm
XY Res	0.050mm 3840 x 2400 (4K)
Z Axis Res	0.01mm
Printing Speed	60mm/hr max.
Material	405nm UV Resin
System	ANYCUBIC Photon Mono X
Operation	3.5 inch Touch Screen
Software	ANYCUBIC Photon workshop
Connectivity	USB / Wi-Fi
Technology	LCD-based SLA
Light Source	High-quality filament (405nm)
Build Volume	245(H) x 192(L) x 120(W)mm
Dimensions	475(H) x 270(D) x 290(W)mm
Weight	10.75kg



 4K Resin 3D Printer
 Cat.
 Qty 1+

 4K Resin 3D Printer
 TL4421
 \$1,299.00

RESIN WASH AND CURE MACHINES

Wash and Cure Machines for Resin 3D Prints

The ANYCUBIC wash and cure machine comes with built in 405nm UV light set, rotatable curing platform with full 360° curing operation, auto pause function when user lifts the the top cover and a wash function which allows you to use a wash solution and wash away any excess solution from your print.

Two models to choose from.

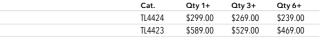
ANYCUBIC

Wash and Cure 2.0

Wash and Cure Plus

Specifications	TL4424	TL4423
Control Method	Digital tube, LED indicator, Control knob	Digital tube, LED indicator, Control knob
Rated Power	25W	25W
UV Lights	405nm	405nm
Time Selection	1-60min	1-60min
Machine Size	365(H) x 225(L) x 235(W)mm	479(H) x 290(L) x 270(W)mm
Basket Washing Size	165(H) x 120(L) x 74(W)mm	290(H) x 192(L) x 120(W)mm
Hanging Cleaning Size	235(H) x 192(L) x 120(W)mm	235(H) x 192(L) x120(W)mm
Curing Size	165(H) x 140(D)mm	245(H) x 190(D)mm





RESIN FOR 3D PRINTERS



ESUN 3D PRINTER RESIN

A range of resins from market leader eSun, made specifically for LCD/LED light source printers.

- Optimised for both colour and mono printers
- Suitable for large and small printers

eSUN Standard Resin 1kg

eSun-Standard Resin is a good general purpose resin with high hardness.

- High hardness & rigidity
- Good moulding accuracy
- Easy to print thin-walled part
- Smooth printing surface

eSUN PLA Resin 1kg

eSun-PLA is a Bio-Based PLA Resin designed to be cleaned with a resin wash.

esun

eResin-PLA

SONNE

esun

SONNE

- Low smell
- High precision
- Smooth surface
- Can be and drilled
- EN71-3 certified, safe for kids to use, making model toys, etc.



eSUN PLA Pro Resin 1kg

eSun-PLA is a Bio-Based PLA Resin which has excellent resolution, well suited to the production of props and models that require a higher level of detail.

- Higher resolution & precision
- High strength & toughness (balanced performance)
- EN71-3 certified, safe for kids to use, making model toys, etc.

esi	JN'		Excellent resolution		
1kg	Cat.	Qty 1+	Qty 3+	Qty 6+	
Gray	TL4440	\$69.90	\$62.90	\$55.90	
Black	TL4441	\$69.90	\$62.90	\$55.90	
White	TL4442	\$69.90	\$62.90	\$55.90	

Medium density **esun** 1kg Cat. **Qty 1+** Qty 3+ Qty 6+ Red TL4443 \$84.90 \$75.90 \$67.90 Yellow TL4444 \$84.90 \$75.90 \$67.90 White TL4445 \$84.90 \$75.90 \$67.90 \$75.90 \$67.90 Black TI 4446 \$84 90 \$67.90 Gray TL4447 \$84.90 \$75.90 Sky Blue TL4448 \$84.90 \$75.90 \$67.90 \$84.90 \$67.90 TL4449 \$75.90 Clear

es u	JN'		High precision		
1kg	Cat.	Qty 1+	Qty 3+	Qty 6+	
Red	TL4433	\$69.90	\$62.90	\$55.90	
Yellow	TL4434	\$69.90	\$62.90	\$55.90	
White	TL4435	\$69.90	\$62.90	\$55.90	
Black	TL4436	\$69.90	\$62.90	\$55.90	
Gray	TL4437	\$69.90	\$62.90	\$55.90	
Blue	TL4438	\$69.90	\$62.90	\$55.90	
Clear	TL4439	\$69.90	\$62.90	\$55.90	

Specifications	Standard	PLA	PLA Pro	Water Washable
Wavelength (nm)	395-405	395-405	355-405	395-405
Density (g/m3)	1.08-1.13	1.07-1.10	1.09-1.10	1.10-1.14
Viscosity (25°, MPa.s)	170-200	100-270	200-300	110-180
Hardness (Shore D)	78-82	75-82	78-80	74-82
Tensile Strength (Mpa)	46-67	24-55	37-48	19-46
Elongation at Break (%)	28-36	24-37	25-28	17-30
Flexural Strength (Mpa)	46-72	25-61	36-49	15-50
Cat no.	TL4443-TL4449	TL4433-TL4439	TL4440-TL4442	TL4450-TL4453

eSUN Water Washable Resin 500g

eSun-Washable Resin offers the ability to wash your print model clean after printing using plain water. This is a time and money saving feature you will love. Remember to dispose of the wash water safely! (See tech talk)

- Water washable
- High precision
- Low viscosityHigh release rate
- Balanced strength, durability and rigidity

esi	JN.		Water washable
500g	Cat.	Qty 1+	
White	TL4450	\$46.90	
Clear	TL4451	\$46.90	
Black	TL4452	\$46.90	
Gray	TL4453	\$46.90	

Resin for ANYCUBIC 3D UV Resin Printers

Anycubic resins are designed to optimise the performance of low light source LCD based printers. This resin ensures maximum strength and minimal shrinkage as well as achieving fastest print speed. Shortened curing time adds to the performance enhancements brining premium print jobs to life in the shortest time. As well as fast and accurate printing this resin minimises release forces and adhesion so that the model attached to the forming platform can be easily removed. Low viscosity makes for easier cleaning of both printer and model.

- 500ml bottle
- 405nm UV wavelength



ANYCUBIC

500ml	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	TL4425	\$46.90	\$41.90	\$36.90
Grey	TL4426	\$46.90	\$41.90	\$36.90
Clear	TL4427	\$46.90	\$41.90	\$36.90
Blue	TL4428	\$46.90	\$41.90	\$36.90
Green	TL4429	\$46.90	\$41.90	\$36.90

HANDLING RESIN

When handling uncured resin, it's highly recommended to wear protective gloves. Our IPA (NA1066) can be used to clean uncured resin off your machine & desktop, but should never be used to clean skin.



After rinsing printed models with water, the water picks up particles of the resin. The safest way to dispose of this is to let the rinse water sit in a tray in the sun. The resin will solidify allowing the water to be filtered and the solids captured. Once captured they can be dispose of in the same way you would waste plastic.



A10 ⊶





3D PRINTERS CONTINUED

Aquila Easy DIY 3D Printer with Large Print Area

The Voxelab Aquila DIY 3D printer is the perfect printer for beginners, hobbyists and tinkerers. With a large build volume of $220 \times 220 \times 250$ mm, it can achieve quiet large print projects. This printer operates at high end with the many features it has packed in its amazing price bracket. The Aquila is the perfect 3d printer for makers with a

- Large build volume 220x220x250mm
- Resume printing
- Out-of-box assembledAluminum body
- Filament auto feeding
- Flexible print bed
- 4.3" colour screen
- Filament supported PLA, ABS, PETG and Voxelab PLA Pro Filament.













x 220(W)mm

0.2mm 100mm/s

Specifications	•	TL4432		
Build Volume		220(L) x 220(W) x 2	250(H)mm	
Maximum Print Speed		100 mm/s		
Filament		1.75mm PLA/ABS/I	PETG	
Platform		Glass		
Layer Resolution		0.2mm		
Dimensions		480(W) x 475(L) x 473(H)mm		
	Cat.	Qty 1+	Qty 3+	
Aquila Easy DIY 3D Printer	TL4432	\$589.00	\$529.00	

Creality 3D Printer CR-X Dual Filament

Featuring a new print head design that channels two filament feeds through a single nozzle, the CR-X is the first dual extruder 3D printer from Creality. Two spool holders mounted atop the CR-X feed into two extruders, which are situated on both ends of the X-axis rail. From here, the two filaments pass through PTFE tubes into a single Y-splitter feeding into the CR-X's hot end, before extrusion through a single 0.4mm nozzle.

- 4.3" colour LCD touchscreen
- Over-sized bed screws for leveling the print bed
- Carboloy silicon printing platform
 0.4mm nozzle aperture
- · Dual cooling fans
- SD memory card slot
- Heavy duty power 24VDC supply



x 300(W)mm







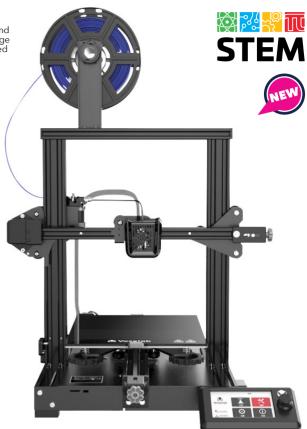




0.1 - 0.5mm 120mm/s

Specifications Build Volume 300(L) x 300(W) x 400(H)mm **Maximum Print Speed** 120 mm/s Filament ABS/PLA Filament Diameter 1.75 mm Interface microSD Dimensions 400 x 650 x 550mm, Weight: 12kg Extruders Dual extruder, dual filament Layer Resolution 0.1-0.5mm Layer Thickness +/- 0.2 mm Nozzle Diameter 0 4 mm **Extruder Temperature** 220°C 120°C **Bed Temperature** 4.3" Colour Touch Screen

	Cat.	Qty 1+	Qty 3+	Qty 6+
Creality Dual Filament 3D Printer	TL4410	\$1,449.00		
Replacement Nozzle	TL4216	Not available	in New Zealan	d.
Teflon Tube	TL4217	Not available	in New Zealan	d.
Pipe Joint	TL4218	Not available	in New Zealan	d.





CREALITY

jaycar.co.nz

3D PRINTERS CONTINUED

Flashforge Adventurer 3 3D Printer with Cloud Print Management

The Adventurer 3 3D Printer is the new generation desktop 3D printer from Flashforge. It features a removable print bed, cloud print, detachable nozzle, and built-in camera, which is perfect as a teaching tool and great for domestic or commercial use. Detachable nozzle: remove nozzle just in one clip; stainless steel tube material, fast heating up to 200°C in 50 seconds. Features 3D Cloud, an integral 3D printing resource platform - Get free storagespace (register online), backup and share files, interact with other users, automatically slice print files, free model database.

- Lightweight and compact design
- Auto filament feeding with an enclosed built-in filament cartridge
 Removable and flexible heated print bed

- 45dB, ultra-quiet during operation
 Built-in 2MP HD camera for remote monitoring
- Full-colour touch-screen with simple UI interface design
- Online management transfer, monitor, and manage multiple printers effortlessly















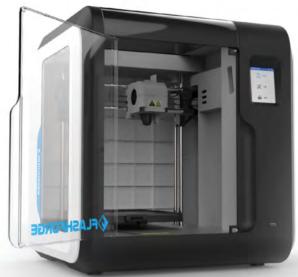




150(L) x 150(H) Enclosed x 150(W)mm

Specifications TL4256 150(L) x 150(H) x 150(W)mm **Build Volume** Layer Resolution 0.1 - 0.4mm **Nozzle Diameter** 0.4mm Max. Print Bed Temperature 100°C **Extruder Quantity** Single Frame & Body ABS/PC Software FlashPrint Connectivity USB Stick/Wi-Fi/Ethernet/Cloud Printing

	Cat.	City I+
Flashforge Adventurer 3	TL4256	\$999.00





Flashforge Adventurer 4 3D Printer with Air Filter

The Adventurer 4 offers a number of benefits. A larger size means larger builds and the optional 265°C nozzle means exotic filaments are no problem.

The levelling free platform minimises set-up time and the 110°C platform with magnetic build plate and double holder spring plate simplify the removal of models.

Resume printing after a power failure, HD camera and app based remote control enhance 24/7 management of your print jobs. The package is rounder out with a 1kg spool capacity and HEPA 13 filter.

This is a well-priced larger capacity unit.

- Multiple nozzle extruder options
- Quick-release nozzle designFilament detection
- Magnetic flexible build platform
- 4.3" touchscreen
- Resume printing
- Remote printing Remote printing control by Wi-Fi or Ethernet. Supports ABS, PLA, PC, PETG, PLA-CF, PETG-CF materials.
- Cloud printing
- Built-in-camera
 HEPA13 air filter
- Energy-saving mode











250x220x200mm Enclosed

Flashforge Adventurer 4







\$1,499.00





1.75mm 0.1 - 0.4mm 150mm/s

TL4431
220(W) x 200(D) x 250(H)mm
150 mm/s
0.1 - 0.4mm
0.4mm
240°C
110°C
Single
540(H) x 500(L) x 470(W)mm



Built-in HEPA13 air filter



3D PRINTERS CONTINUED

Flashforge Guider IIS Extra Large 3D Printer

The Flashforge Guider IIs has an upgraded extruder which can be heated up to 300°, and a max print speed of 100mm/s. It gives you access to print with a wide varity of PLA, PVA and advanced filament such as PETG, TPU, ABS, Nylon, HIPS, PA, PC, wood, electrically conductive materials, flexible material. The Guider IIs' platform can print at a max dimension of 280 x 250 x 300mm 3D models, meaning you can print large whole 3d model or print multiple parts at the same time. The unit is enclosed in a sturdy 38kg full-metal frame which its design allows the print head to move steadily & quietly, ensuring consistent 3d printing every time. The bed auto-leveling system ensures the platform is level before the print. The extruder then adjusts the minor distance between the print nozzle and platform to create a uniform and smooth build surface, which highly improves the platform adhesion and print quality.













280(W) x 250(D) 300(H)mm

· ·		•	_	
280(W) x 250(D) x Clos 300(H)mm	sed 1	1.75mm	0.1 - 0.4mm	100mm/s
Specifications	TL4239			
Maximum Print Size	280(W) x 250(D)	x 300(H)mm		
Maximum Print Speed	100 mm/s			
Filament	PLA / ABS / PETG /	HIPS / PC / ASA		
Filament Diameter	1.75			
Interface	USB cable, USB st	ick, Wi-Fi, Ether	net FlashCloud, P	olarCloud
Extruders	1			
Extruder Temperature	300°C			
Cameras	1			
Layer Resolution	0.1-0.4mm			
Layer Thickness	- + 0.2mm			
Nozzle Diameter	1.75			
Bed Temperature	120°C			
Screen	5 inch touch scree	en		
Dimensions	550(L) x 490(W) x	570(H)mm		

	Cat.	Qty 1 +	
Flashforge Guider IIS	TL4239	\$2,899.00	

Flashforge Creator III V2 Dual Extruder 3D Printer

With two extruders the Flashforge Creator 3 V2 you can print multiple ways, independent dual extruder, Mirror Mode and Copy mode. Double efficiency of the mirror printing, the Creator 3 makes it come true where more complicated prints that can be printed with dual extrusion and water-soluble filament. Make the impossible possible and achieve the expected printing effect.

- 300°C patent extruder & 120°C heatable build bed • Open filament system & filament detection
- Resumes printing from power failure
- 5" touchscreen Cloud printing
- Built-in camera
- · Air filter





- 300°C Integrated nozzle
- Intelligent Bed Leveling
 Spring Sheet Print Plate
 Built-In Camera
- 4.5" Touch Screen
- Built-In Filament Spools





















x 200(H)mm Filament	
Specifications	TL4258
Build Volume	300(L) x 250(W) x 200(H)mm
Maximum Print Speed	10-150 mm/s
Filament	PLA/ABS/PC/PVA/HIPS/PETG/W.P.C./Nylon
Filament Diameter	1.75 mm
Interface	USB stick/WiFi/Ethernet/3D Cloud
Extruders	2
Layer Resolution	0.05-0.4mm
Layer Thickness	+/- 0.2 mm
Nozzle Diameter	0.4 mm
Extruder Temperature	300°C
Bed Temperature	120°C adjustable
Screen	4.5" Colour Touchscreen
Dimensions	1935(H) x 1918(L) x 1605(W)mm, Weight: 23.6kg



Cat. Qty 1+ Flashforge Creator III V2 TL4258 Not available in New Zealand.

3D PRINTING & SCANNING

DOBOT Triple Filament 3D Printer MOOZ-3Z

The newly introduced modular colour-mixing 3D printer MOOZ-3Z features a delta structure and high printing efficiency. Equipped with a three-colour print head, you can easily create mixed colour printing artworks via the controller, by setting different feeding speed and printing time of the three differently-coloured raw filaments. Two schemes of colour-mixing in CMY colour mode are available to 3D print the desired colour pattern. Quick assembly, easy-to-use controller and app, rich printing colour pattern make MOOZ-3Z suitable for beginners, DIYers, educators and artists. It's time to say goodbye to monotonous single-colour printing and welcome more beautiful and colourful 3D printing models.

3-in 1-out Mix Colour Print Head that Prints at Fast Speed and High Efficiency

Born for colour-mixing 3D printing, MOOZ-3Z shows super high efficiency and incredible fidelity. By using merely one 0.4mm nozzle, it provides you with very smooth and lifelike results. The 3-in-1 out mix colour print head

not only gives a rich mixture of colour combination to the printed objects, but also brings forth high efficiency and ultra fast printing speeds. Different colours will blend together perfectly so that you create multi-colour objects without encountering any trouble.





100(L) x 100(H)













ABS/PLA 1.75mm Filament x 100(W)mm Specifications TL4412 **Build Volume** 100 x 100 x 100 mm Layer Resolution 0.05 - 0.3mm 0.4mm Nozzle Diameter Max. Print Bed Temp. 100°C **Extruder Quantity** Triple Aircraft Grade Aluminium Frame & Body Colour mixing Materials 1 75mm PLA, ABS ology

Connectivity Wi-Fi,	SD Card, USB		techno
	Cat.	Qty 1+	
DOBOT Triple Filament 3D Printer	TL4412	\$799.00	

Snapmaker 3-in-1 Printer with 3D Printing/Laser Etching/ **CNC Carving Interchanging Modules**

The Snapmaker 3-in-1 3D Printer isn't just limited to 3D printing. The extruder nozzle can be swapped out with the included laser engraver or the CNC carver. With its integrated modular design and connectors, you can transform this printer with ease as well as expand it with future upgrades. The 3.5" touch'screen gives you added control of your printer. The all-metal design of this printer is durable and provides a solid frame.

3D Printing Print 3D models as precise as 50 microns in a 4.9 x 4.9 x 4.9 " build area using 1.75mm ABS and PLA filaments. Print from the USB Type-A port using .obj and .stl file types. The print bed is heated.

Laser Engraving With a 4.9 x 4.9" work area, the laser is 200 mW with a wavelength of 405 nm and is Safety Class 3B. It works on wood, bamboo, leather, plastic, fabric, paper, non-transparent acrylic, and more. Please note that the laser cannot engrave on metal, glass, and other reflective surfaces. Upload supported file types, such as SVG, JPEG, and PNG, to the Snapmaker.

CNC Carving With a 3.175mm shank diameter running at up to 19,000 rpm, the CNC carving module has a $3.5 \times 3.5 \times 2.0$ " work area. It can work with wood, acrylic, PCB, carbon fibre sheets, jade, and more. Please note that metal, glass, and gem are not supported. SVG, STEP, IGES, IGS, DWG, DXF, and more are the supported file types. You may need to use a third-party application, like Autodesk Fusion 360.















•	
125x125x125mm	Both

PLA/ABS

1.75mm

0.05 - 0.3mm 120mm/s

Specifications	TL4400	Ext	truder Temp.	220°C
Build Volume	125 x 125 x 125 mi	m Lay	er Resolution	0.05-0.3mm
Max. Print Speed	120 mm/s	Lay	er Thickness	+/- 0.2 mm
Filament	ABS, PLA	No	zzle Diameter	0.4 mm
Filament Diameter	1.75 mm	Ве	d Temp.	60°C
Interface	USB	Scr	een	3.5" Colour Touch
Dimensions	272 x 290 x 335mr Weight: 9kg	^{n,} CN	C Carving size	90 x 90 x 50mm
Extruders	1	Las	er Engraving size	125 x 125mm
	Cat	t.	Qty 1+	
3-in-1 Printer	TL4	400	\$1,499.00	
Enclosure for 3-in-1	TL4	401	Not available in New 2	Zealand.

3D PRINTING PEN

3D Printing Pen

Create amazing 3D artwork with this 3D printing pen. It is comfortable to hold, and easy to operate. You simply press the feed button with your thumb to start the filament flowing. It supports both 1.75mm ABS and PLA filament, and automatically recognises when you insert new filament. A USB lead and mains power adaptor are included for power, and the pen automatically turns off after 2 minutes of inactivity if you forget to turn it off. 3 stencils, a drawing pad, and 3 x 10m rolls of coloured PLA filament are supplied to get you started straight away. Recommended for ages 14+.

- ABS or PLA filament compatible
 3 template stencils included
- Ergonomic shape for comfortable operation Includes 1 x 3D Printing Pen, 3 x 10m Filament Rolls, Stand, USB Power Cable, USB to Mains

Power Adaptor, 3 x Templates, and Drawing Pad

3D Printing Pen

10 Piece Filament Pack

5					1
Specifications	TL4253	5			
Filament Type	PLA,ABS			-	
DC Plugpack Voltage	5VDC	A		OF THE	
DC Current Draw	2A		V	1000	
Filament Size	1.75mm				
Dimensions	185(L) x 2	7(D) x 50(H	I)mm		
Weight	62.0g				
Nozzle Diameter	0.6mm				
Max Nozzle Temp.	230°C				
		Cat.	Qtv 1+	Qtv 3+	Qtv 6+

TL4253

TL4255

\$94.90

\$16.90

\$84.90

\$14.90

\$75.90

\$13.90

3D SCANNER

Desktop 3D Scanner V2 with Quickscan Software

The +Quickscan feature captures geometry in as fast as 65 seconds! Packaged together with the V2 3D scanner MFStudio and +Quickscan produce rewarding, fast results that allow you to set up a scan and watch the object materialise on screen like magic. You'll find yourself experimenting and learning to master 3D scanning in no

time. Enjoy total control over your scanning setup with a scan accuracy withing ±0.1mm. Achieve great results quickly and with ease. Become resourceful and create something spectacular! Includes V2 3D Scanner, USB B cable, AC Power adapter, 4 interchangeable

worldwide power plugs, Calibration card User Manual, Product Information Booklet, Small Plastic Toy, MFStudio software with +Quickscan.

Dimensions: 345(H) x 210(W) x 85(L)mm

Specifications	TL4420			
Max Scan Height & Diameter	250(H) x 180(Dia.)mm			
Interface	USB 2.0			
Max Scan Weight	2.99kg			
Sensors	HD CMOS Sensor with Two Lasers			
	Cat.	Qty 1+		
3D Scanner	TL4420	\$1,699.00		





FILAMENT GUIDE

Over these pages you can see that Jaycar sells an extensive range of 3D printer filaments from standard PLA to exotic filaments, including conductive, flexible and glow-in-the-dark. If you're wondering which filament to purchase, looking to fine-tune your printer, or just curious to find out what options are available have a look at the table below. Our in-house boffins have tested our filaments under all sorts of conditions to work out exactly what the best settings are for printing. We've listed recommended bed and nozzle temperatures, and other suggestions to get the best out of your filament.



	Extruder Temp	Bed Temp	Notes:
PLA	200°C to 220°C	0°C to 70°C	Most common type of filament which compatible with all types of 3D printers. Bio-degradable and FDA food safety approved.
ESILK	190°C to 220°C	0°C to 80°C	Prints like PLA, with a transparent & high gloss finish.
PETG	230°C to 250°C	0°C to 80°C	Easy to print, stronger than PLA with low shrinkage. Not as resistant to heat & chemicals compared to ABS.
ABS	220°C to 260°C	90°C to 110°C	Able to withstand heat and stress without cracking or weakening, finished prints will hide blemishes & minor print issues. ABS is highly resistant to chemicals, making it a great base for gluing, sanding & painting.

3D PRINTER FILAMENT

1.75mm Flashforge PLA Filament

The best, most consistent and most tested PLA filament engineered and manufactured by Flashforge perfect for use with Flashforge's 3D printer range. Made with high quality PLA material to ensure smooth feeding

and extrusion. All Flashforge filaments are tested to minimize the chance of jamming in the extruder. Use with confidence!



600g & 1kg rolls available

1.75mm ABS Black 3D Filament - 1kg

1kg roll. ABS (Acrylonitrile butadiene styrene) is an impact resistant and tough oil based material made from styrene, acryl and butadiene. It has a higher melting point compared to PLA, requires a heat bed during the printing process, but is stronger and more flexible.



Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	1kg	TL4070	\$74.90	\$67.40	\$59.90
			~	ech	talk



Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	600g	TL4260	\$28.90	\$25.90	\$22.90
Blue	600g	TL4261	\$28.90	\$25.90	\$22.90
Green	600g	TL4262	\$28.90	\$25.90	\$22.90
Red	600g	TL4263	\$28.90	\$25.90	\$22.90
Clear	600g	TL4264	\$28.90	\$25.90	\$22.90
Orange	600g	TL4265	\$28.90	\$25.90	\$22.90
White	600g	TL4266	\$28.90	\$25.90	\$22.90
Yellow	600g NEW	TL4267	\$28.90		
Black	1kg	TL4270	\$45.90	\$40.90	\$35.90
Blue	1kg	TL4271	\$45.90	\$40.90	\$35.90
Green	1kg	TL4272	\$45.90	\$40.90	\$35.90
Red	1kg	TL4273	\$45.90	\$40.90	\$35.90
Clear	1kg	TL4274	\$45.90	\$40.90	\$35.90
Orange	1kg	TL4275	\$45.90	\$40.90	\$35.90
White	1kg	TL4276	\$45.90	\$40.90	\$35.90
Yellow	1kg NEW	TL4269	\$45.90	\$40.90	\$35.90

FILAMENT TYPES

Description Summary of filament types PLA (Polylactic Acid): Commonly used filament. Odourless, low warp. Does not need heated bed. Environmentally friendly. Made from corn starch.

ABS (Acrylonitrile Butadiene Styrene): Very durable. Will withstand high temperatures. Needs heated bed. Can be finished (after printing) with Acetone to produce glossy finish.

PET (Polyethylene Terephthalate): A plastic commonly used in plastic bottles. Stronger and more flexible than ABS. High degree of successful printing outcomes.

Other filament types: These are usually combinations of the base plastics above loaded with fillers to give the filament individual properties, e.g. "wood" appearance, metallic, etc.

See page A18 for more details.

1.75MM ESUN FILAMENT

eSun are regarded as one of the leading manufacturers of high quality resin & 3D filament, known for producing smoother prints & better adhesion. We have partnered with eSun to expand our range of resin & filament colours and types, including some new exotics, to hopefully ensure we have the right filament for your next work of art.



The all new eSUN PLA+ filaments are 100% bio-degradable and FDA food safety approved. PLA+ is 10 times stronger than regular PLA and has no wire-drawing problems, meaning the surface of the printouts will be smoother and more delicate. With a low material shrinkage rate giving a uniform diameter & no cracking or brittle issues.

100% Bio-degradable

ALL
200°C to 220°C
0°C to 70°C
80 to 90mm/s
0 to 150mm/s



Exotic finishes

TIET

CSUK

PLA+	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	1kg	TL4454	\$46.90	\$41.90	\$36.90
White	1kg	TL4455	\$46.90	\$41.90	\$36.90
Clear	1kg	TL4481	\$46.90	\$41.90	
Pink	1kg	TL4456	\$46.90	\$41.90	\$36.90
Purple	1kg	TL4457	\$46.90	\$41.90	\$36.90
Fire Eng. Red	1kg	TL4458	\$46.90	\$41.90	\$36.90
Blue	1kg	TL4459	\$46.90	\$41.90	\$36.90
Red	1kg	TL4460	\$46.90	\$41.90	\$36.90
Yellow	1kg	TL4461	\$46.90	\$41.90	\$36.90
Green	1kg	TL4462	\$46.90	\$41.90	\$36.90
Orange	1kg	TL4463	\$46.90	\$41.90	\$36.90
Gold	1kg	TL4464	\$46.90	\$41.90	\$36.90

PFTG

The eSUN PETG filaments are stronger than regular PLA, having similar properties to that of ABS without common print issues that come with it. It also has no wire-drawing problems, meaning the surface of the printouts will be smoother and more delicate. A low material shrinkage rate gives a uniform diameter and no cracking or brittle issues.

Stronger than regular PLA

esun	TL4470
Specifications	ALL
Best Printing Temp.	230°C to 250°C
Bed Temp.	0°C to 80°C
Printing Speed	30 to 90mm/s
Movement Speed	90 to 150mm/s



PETG	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	1kg	TL4465	\$46.90	\$41.90	\$36.90
White	1kg	TL4466	\$46.90	\$41.90	\$36.90
Natural	1kg	TL4467	\$46.90	\$41.90	\$36.90
Blue	1kg	TL4468	\$46.90	\$41.90	\$36.90
Yellow	1kg	TL4469	\$46.90	\$41.90	\$36.90
Green	1kg	TL4470	\$46.90	\$41.90	\$36.90
Red	1kg	TL4471	\$46.90	\$41.90	\$36.90

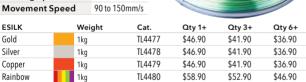
ABS+

The eSUN ABS+ filaments are extremely durable, lightweight alternatives to PETG & PLA. Able to withstand heat and stress without cracking or weakening, finished prints will hide blemishes & minor print issues. ABS+ is highly resistant to chemicals, making it a great base for gluing, sanding & painting.

eSilk

The eSUN eSilk filaments are made from a special mix of PLA+ & certain additives to give a glossy & slightly transparent appearance when printed.

esun	TL4480
Specifications	ALL
Best Printing Temp.	190°C to 220°C
Bed Temp.	0°C to 80°C
Printing Speed	30 to 90mm/s
Manager Constant	00 += 150/-



Extremely durable & lightweight

@SUN	TL4474
Specifications	ALL
Best Printing Temp.	220°C to 260°C
Bed Temp.	90°C to 110°C
Printing Speed	30 to 90mm/s
Movement Speed	90 to 150mm/s



ABS+	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	1kg	TL4472	\$46.90	\$41.90	\$36.90
White	1kg	TL4473	\$46.90	\$41.90	\$36.90
Red	1kg	TL4474	\$46.90	\$41.90	\$36.90
Silver	1kg	TL4475	\$46.90	\$41.90	\$36.90

3D PRINTING FILAMENT STORAGE

eSUN eBox Filament Storage Dry Box with Built-in Heater The eSUN eBox Filament Storage Dry Box is the new filament

storage box designed by eSUN. Its not just a storage box but actively heats up to keep the filament dry. With a maximum heating temperature of 80°C (heating panel temperature), eBox can also be used to create a completely dry environment for your filament and to actively dry out the moisture in some filaments The eBox also integrates a weighing function which allows customers to weigh the filament left and check how much filament costs for each print.

- Filaments are rack placed
- Sealed protection, dust-free
- Space to add a silica gel pack
- Set the heater time and temperature • Real-time filament weight detection

Filament not included.		- E663	Built-in heater		
	Cat.	Qty 1+	Qty 3+		
eBox Filament Storage Dry Box	TL4430	\$119.00	\$106.90		

Mini Auto Vacuum Pump with Bags

If you own a 3D printer, it is important to keep any unused filament dry to ensure a better build quality of your prints. Many filament types are hygroscopic which means they can draw in moisture from the air. Any moisture can lead to stringing, air bubbles, poor bed adhesion, etc. This mini vacuum pump provides an easy and

affordable way to keep your printer filament dry. Simply insert your filament into one of the six bags provided, seal the bag, and then draw out the air by placing the pump over the bag's air valve and pressing the start/ stop button. The bags can also be used to keep food fresher

for longer. 4 x AA batteries required (not included). Supplied with 6 reusable bags (3pcs 30x34cm, 3pcs 26x34cm)



	Cat.	Qty 1+	Qty 3+	Qty 6+
Vacuum with 6 Bags (2 Sizes)	TL4390	\$39.90	\$35.90	\$31.90
Pack of 6 Bags (2 Sizes)	TL4392	\$11.90	\$10.90	\$9.90



EXOTIC FILAMENT GUIDE

Our range of exotic filaments are sure to appeal to anyone interested in 3D printing. There's filament that makes your creation look like it's made from wood, glow-in-the-dark, flexible and colour changing filament when heat is applied, and more. Imagine the possibilities with the conductive filament! All of our exotic filaments are 1.75mm, supplied in 250g rolls, and are all suitable for our current and superseded 3D printers.

Note: Exotic filament not suitable for our 3D pen.



	Extruder Temp (°C)	Bed Temp (°C)	Notes:
GLOW IN THE DARK	180°C to 240°C	20°C to 80°C	Glow-in-the-dark filament is a great product to decorate children's bedrooms, from glowing light switches to a starry sky on the ceiling. Your prints will shine brightest immediately after turning out the lights, but dim quickly to a soft glow in the night. Use your normal print settings for PLA, but add more perimeters to your prints. The more perimeters, the more glow. Glow-in-the-dark filament is available in PLA filament 1.75mm.
ТРЕ	210°C to 225°C	20°C to 55°C	TPE filament is a flexible 3D printing material that feels and acts much like flexible rubber. TPE filament can be used to make parts that can bend or must flex to fit their environment: stoppers, belts, springs, phone cases, and more. Due to its flexibility, much slower print speeds must be used to keep the filament from binding in the extruder- we print at 20% speed.
WOOD	175°C to 250°C	30°C to 50°C	These wood-like 3D printer materials give 3D printed objects the look and feel of fibreboard. They imbue parts with other wood-like attributes, such as the ability be cut, painted, and sanded. These filaments use PLA as their base, and mix other materials (usually in powder form) into them. The PLA gives the 3D printer compatibility and ease of use while the material contributes to the look, feel, and properties of the filament. With these organic fills, be cautious of too high of a temperature, as it will result in the wood burning which will give you a darker coloured print. It is important to remove the filament from the extruder fairly soon after finishing a print, as the filament will begin to burn in the nozzle and start to clog it.
METALLIC	195°C to 220°C	20°C to 50°C	These metals infused PLA filaments are tougher to print than Standard PLA filament, but because of the metal blended with the plastic, prints are heavier and thus, feel more authentic. Finished 3D prints can be sanded and polished to create beautiful and unique pieces. Unpolished, the filament looks like cast metal fresh from a mould, with a dull, matte, gritty appearance. With just a little finishing and polishing, however, you can easily create any look like you desire. 3D Printing with these metals is perfect for printing jewellery, props, costumes, figurines, and robots. These filaments are great not only for hobbyists looking to make faux metal prints, but serious designers as well.

3D PRINTER EXOTIC FILAMENT

Wood Finish

Perfect for recreating antique furniture and recreating small wooden features. Prints with a smooth finish that is ideal for painting, or even finishing with a wood-burning tool. The colour also suits models of animals and natural creatures.

Contains wood, so models smell like wood

• Can be printed at different

temperatures to give different colours					
	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Wood	1.75mm	TL4124	\$24.90	\$22.40	\$19.90

Copper Finish

Did you know that the Statue of Liberty is made of copper? Now you can recreate any similar structure (miniaturised version of course) with this filament. Brush with some green paint to give a classic corroded copper patina.

 Contains copper, giving models weight and excellent thermal properties

	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Copper	1.75mm	TL4126	\$34.90	\$31.90	\$27.90

Aluminium Finish

Ideal for printing a classy looking enclosure for your next project. Could also be used to imitate silver or stainless steel. Gives a metallic look without the unwieldy weight normally associated with solid metal objects.

• Contains aluminium



	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+	
Aluminium	1.75mm	TL4128	\$34.90	\$31.90	\$27.90	

Gold Finish

Gold colour only. This filament is every costume jeweller's dream come true! Your imagination will be the only limit as you recreate your favourite bracelet, ring or brooch. Create your own gold trophy or medal and thank yourself for a job well done.



	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Gold	1.75mm	TL4132	\$24.90	\$22.40	\$19.90

Green Glow-in-the-Dark

Print your own bedroom skyscape or other novelty items with glow in the dark filament. Glows after exposure to most light sources.

• White material glows green



Flexible

If you're looking to print something with a bit of bendiness, try our flexible filament. Has excellent adhesion and prints well without splitting. Due to increased flexibility, printer may need modification to guide filament correctly. Pale pink skin-like colour.

STAYS FLEXIBLE

	_						
	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+		
Flexible	1.75mm	TL4136	\$24.90	\$22.40	\$19.90		

Freecall order hotline: 0800 452 922

3D PRINTING FILAMENT & MANAGEMENT

3D PRINTING RELATED TOOLS

3D PRINTER EXOTIC FILAMENT CONTINUED

Conductive PLA

Bring your 3D printed projects to life with this electrically conductive PLA filament! Bulk resistivity is 0.6 ohms per cm3 - note that this is not the same as "grams per centimetre", but refers to the resistance of a 1cm cube across opposite sides with full contact. The filament itself measures about 4k ohms per metre, so it is mostly suitable for signal level

voltages, but it is conceivable that you could illuminate some LEDs for example. The conductive properties come from graphene embedded in PLA which is biodegradable.

Note: Due to the additive in this filament it is very brittle and should be handled with care.

Flashforge 3D Printing Tool Kit

Keep your 3D printer in good working order with this comprehensive toolkit. It includes commonly required tools that you need to service your printer or to unclog a blocked print head. Print heads blockages are common in 3D printing so this kit can save you a lot of time and frustration, and have you back printing quickly.

The kit includes:

- Phillips Screwdriver
- Pliers with Cutter
- Long rounded Hex
- Curved Scraper
- Silicon Grease Satchel
- 0.4mm Wire unclog
- Butane Torch
- Flathead Screwdriver
- Long Flatnose Pliers
 Push Tool
- Glue Stick
- Nylon Tube
- Nozzle Spanner Carry Case

ELECTRICALLY CONDUCTIVE

	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Conductive	1.75mm	TL4142	\$24.90	\$22.40	\$19.90

1.75mm PFT

250g roll of 1.75mm PET filament for 3D printers. Recyclable PET is a stronger alternative to PLA and doesn't smell as bad as ABS when printing. There's four variants of PET available, red, blue, green and yellow, and they are all translucent, giving a stand-out look to your 3D prints.



RECYCLABLE PET

Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
Red	250g	TL4152	\$22.90	\$20.90	\$17.90
Yellow	250g	TL4154	\$22.90	\$20.90	\$17.90
Green	250g	TL4155	\$22.90	\$20.90	\$17.90
Blue	250g	TL4156	\$22.90	\$20.90	\$17.90

THOU THOU THOU THOU THOU THOU THOU THOU

	Cat.	Qty 1+	Qty 3+	Q ty 6+	
3D Printing Tool Kit	TD2132	\$56.90	\$50.90	\$44.90	

3D PRINTING RELATED ACCESSORIES

Heat Resistant Polyimide Tape - 33m

Originally developed for space missions, this is a heat resistant polyimide film tape with a very similar composition to Kapton* but without the associated brand name cost. Its superior adhesion to ABS makes it the ideal film to coat a 3D printer bed.

- Temperatures up to 250°C
- 33m long0.055mm thickness



Width	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	33m	NM2890	\$8.90	\$8.00	\$7.10
16mm	33m	NM2892	\$13.90	\$12.90	\$10.90
24mm	33m	NM2894	\$18.90	\$16.90	\$14.90

Flashforge Spare Build Tape Pads

Stop your 3D models lifting from the print bed with this spare build tape pad to suit various Flashforge printers.



Suits	Cat.	Qty 1+	Qty 3+	Qty 6+
Flashforge Adventurer 3	TL4257	\$9.90	\$8.90	\$7.90
Flashforge Finder	TL4221	\$9.90	\$8.90	\$7.90
Flashforge Guider II	TL4241	\$11.90	\$10.90	
Flashforge Inventor	TL4231	\$11.90	\$10.90	\$9.90

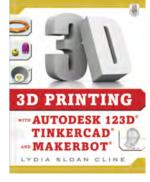
3D PRINTING BOOK

DIY 3D Printing Book

This book, compiled on 3D printing with Autodesk 123D, Tinkercad, and MakerBot reveals how to turn your innovative ideas into physical products that you can use or sell! Will guide you on how to operate powerful, free software from Autodesk and bring your creations to life with the MakerBot - a leading consumer printer - or an online service bureau. The included practical lessons take you through the Design, Catch, Meshmixer, Tinkercad, Make, and CNC Utility apps, and

the MakerBot Desktop. Fun projects, easyto-follow instructions, & clear screenshots progress from installing the software to printing the design. Videos & digital files accompany this hands-on guide.

- Make your own creations with Design and Tinkercad
- Download editable, premade content
- Generate construction documents with the Layout feature
 • Create and edit a reality capture
- model with Catch
- · Edit and mash up .stl files with Meshmixer
- Navigate the MakerBot Desktop
- Print the model on your own machine or with a service bureau



Softcover, 302 pages. 274 x 216mm BM7122 \$58.90		Cat.	Qty 1+
	Softcover, 302 pages. 274 x 216mm	BM7122	\$58.90

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	TS1610	TS1620	TS1564	TS1640	TS1584	TS1648	TS1440
Station Type	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering & Hot Air	Soldering
Power (Watts)	10W	48W	48W	60W	55W	300W	65W
Temp. Range	100-450°C	150-450°C	150-450°C	160-480°C	350-398°C*	50-480°C Soldering 100-500°C Hot Air	200-480°C
Display				LED		LED	LED
ESD Safe				•	•	•	•
Page	A20	A20	A20	A21	A22	A22	A21
Price	\$39.90	\$71.90	\$139.00	\$189.00	\$429.00	\$289.00	\$389.00

^{*}Temperature rating is set by the soldering iron tip. ESD means Electro Static Discharge

SOLDERING STATIONS - 240VAC

10W Soldering Station - 240VAC

Exceptionally delicate, temperature controlled soldering iron. With low pencil weight will help reduce fatigue on your hands when working for prolonged periods. Compact so you can almost keep it in your toolkit, and still have the precision you need on-site. The delicate pencil has enough power to work with fine components and circuits and good for very thin hookup style cable. Suitable for lead-based and lead-free solder thanks to the 100-450°C temperature

range. Temperature is selected with the rotary dial, and the base unit includes an integrated stand.





An ideal entry-level soldering station for the hobby user. This station comes with a lightweight iron with anti-slip grip and tip cleaning sponge, with temperature adjustment up to 450°C . It also has a 4mm banana socket connected to mains earth for soldering static-sensitive components

• Spare tip 0.5mm conical: TS1622



Specifications	TS1610	TS1610				
Recommended Use	Hobby	Hobby				
Power	10W					
Temperature Range	100-450°C	100-450°C				
Analogue/Digital	Analogue	Analogue				
ESD Rated	No	No				
Lead-Free Rated	No					
Dimensions	100(L) x 6	100(L) x 65(W) x 63(D)mm, 600g				
	Cat.	Qty 1+	Qty 3+	Qty 6+		
Soldering Station 10W	TS1610	\$39.90	\$35.90	\$31.90		
Spare Pencil	TS1611	\$5.90	\$5.30	\$4.70		

Specifications	TS1620					
Recommended Use	Hobby	Hobby				
Power	48W					
Temperature Range	150-450°C	150-450°C				
Analogue/Digital	Analogue	Analogue				
ESD Rated	No	No VEAR				
Lead-Free Rated	No					
Dimensions	135(L) x 82	135(L) x 82(W) x 70(H)mm				
	Cat.	Qty 1+	Qty 3+	Qty 6+		
Soldering Station 48W	TS1620	\$71.90	\$64.50	\$57.50		
0.5mm Conical Tip	TS1622	\$11.90	\$10.90	\$9.50		

48W Soldering Station - 240VAC

Ideal station for the advanced hobby user. It features accurate analogue temperature adjustment, ceramic element and a lightweight pencil that will give you hours of fatigue-free soldering. The stand has spare tip storage and is very sturdy.

\$12.90

\$12.90

\$11.30

\$11.30

• Spare tips/pencil available

0.5mm Conical Tip

2.0mm Chisel Tip

Specifications	TS1564	TS1564				
Recommended Use	Hobby	Hobby				
Power	48W					
Temperature Range	150 - 450°	С				
Analogue/Digital	Analogue	Analogue				
ESD Rated	No	No				
Lead-Free Rated	Yes					
Dimensions	150(L) x 11	150(L) x 115(W) x 92(H)mm				
	Cat.	Qty 1+	Qty 3+	Qty 6+		
Soldering Station 48W	TS1564	\$139.00	\$124.90	\$110.90		
Spare Pencil	TS1565	\$47.90	\$42.90	\$38.40		

TS1566

TS1567







SOLDERING STATIONS

SOLDERING STATIONS - 240VAC CONTINUED

60W ESD Safe Soldering Station with LED Display - 240VAC

Featuring a powerful 60W heating element, you can dial in your preferred temperature settings with accuracy thanks to the digital display. It comes supplied complete with a vented soldering iron stand, with integrated sponge and tray to keep it clean. Select from Celsius or Fahrenheit temperature display.

- 30sec warm-up time to 350°C (Approx.)
 High temperature stability
- LED display



Specifications	TS1640	
Recommended Use	Hobby	
ESD Rated	Yes	
Lead-Free Rated	Yes	
Analogue/Digital	Digital	
Power	60W	
Temperature Range	160-480°C	
Operating Voltage	240VAC	VEAR
Dimensions	160(L) x 104(W) x 124(D)mm	
Weight	1.5kg	WARRANTY
	C++ O++1+ O++3+	O+ 4 1

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 60W	TS1640	\$189.00	\$169.90	\$150.90
Spare Pencil	TS1641	\$46.90	\$41.90	\$36.90
0.5mm Conical Tip	TS1642	\$10.90	\$9.90	\$8.90
2mm Conical Tip	TS1643	\$10.90	\$9.90	\$8.90
3mm Bevel Tip	TS1644	\$10.90	\$9.90	\$8.90

* ESD means <u>E</u>lectro <u>S</u>tatic <u>D</u>ischarge



40yes of soldering stations

65W ESD Safe Anti-Static Soldering Station with LED Display - 240VAC

Precision, Japanese manufactured instrument with excellent temperature stability and anti-static characteristics.

SOLDERING PENCIL:

Lightweight pencil features a grounded tip, ceramic heater, integrated temperature sensor and very supple silicone rubber grip. The temperature sensor provides precise tip-temperature information to the heater controller, which maintains the selected heat setting with a high degree of accuracy. The tip fits snugly over the heater element providing fast heat transfer and tip temperature recovery during heavy soldering.

• 0.5mm tip supplied

CONTROL UNIT:

Includes a digital temperature display unit, rotary temperature control, calibration control and display changeover switch to display either the desired or actual tip temperature. The darkened see-through cover prevents accidental temperature change but allows for easy access when required.

• Control dimensions, weight: 146(L) x 115(W) x 98(H)mm, 1.5kg



Specifications	TS1440		
Recommended Use	Trade / Industrial		
ESD Rated	Yes		
Lead-Free Rated	Yes		
Analogue/Digital	Digital		
Power	65W		YEAR
Temperature Range	200-480°C		
Dimensions	146(L) x 115(W) x 98(H)mm		WARRANTY
	C-+ 0.	1. 042.	046.1

Soldering Station 65W TS1440 \$389.00 \$349.00 \$30	0.00
J	9.00
Replacement Sponge TS1445 \$9.90 \$8.50 \$7.5	50
0.2mm Conical Tip TS1442 \$24.90 \$22.40 \$19	.90
0.5mm Conical Tip TS1441 \$24.90 \$22.40 \$19	.90

SPARE PARTS FOR DISCONTINUED SOLDERING STATIONS



Weller

Part	mm	°C	Cat.	Qty 1+	Qty 3+	Qty 6+
PTA6	1.6	315	TS1352	\$29.90	\$26.90	\$23.90
ACCESSORIES FO	R TS1513		Cat.	Qty 1+	Qty 3+	Qty 6+
Spare Desoldering G	iun		TS1514	\$74.90	\$67.40	\$59.90
Spare Ceramic Heate	er		TS1515	\$22.90	\$20.30	\$17.90
Spare Filter Set of 2			TS1519	\$2.60	\$2.30	\$2.10
Spare Black Plastic C	ap		TS1520	\$3.30	\$2.95	\$2.60

SOLDERING STATIONS - 240VAC CONTINUED

Thermaltronics Curie Heat Technology Soldering Station 240VAC 55W Rated

It uses a proven technology, Curie point temp sensing with a new twist. The tip is heated by RF induction to bring the tip up to operating temp. The soldering iron tip is the heater. Older Curie point soldering irons like the famous Weller WTCP used a separate Curie-switch, heater and tip. There are thermocouples, varistors or other temp sensors that only complicate things on inferior irons. The thermal inertia with the Thermaltronics product is far lower. The system consists of the base power unit which connects to mains 240V. The soldering pencil accepts a cartridge tip (which is also the heating element) and a burn-proof silicon rubber cord. The third element in the system is the pencil iron stand. This stand features a 'dry'-type tip cleaner which is made from machine curled brass and also a standard sulphide free tip sponge.

- Tips can be hot swapped
- Constant tip temperature
- Low power idle
- Under 10 second heat-up
- Rapid recovery from soldering load
- No overshoot
- No calibration needed
- ESD rated
- Can work leaded and unleaded

CONCLUSION

This is a very exciting development in soldering technology. We are sure that you will be delighted with this product.

Note: Not stocked at all stores but can be ordered.

† All tips are 350-398°C

VITHERMALTRONICS







A must for surface mount hand soldering



Perfect for the serious hobbyist, trade or industrial use

Specifications	TS1584	TS1584				
Power	55W	55W				
Temperature Range	350°C - 39	350°C - 398°C (determined by tip)				
Output Frequency	470kHz					
Tip to GND Resistance	<2 0hms	<2 Ohms DC				
Tip tp GND Potential	2mW, true	2mW, true RMS 50 - 500Hz				
Dimensions	155(H) x 1	155(H) x 110(W) x 92(D)mm				
Weight	1.3kg	1.3kg				
	Cat.	Qty 1+	Qty 3+	Qty 6+		
Soldering Station (inc 0.5mm Tip)	TS1584	\$429.00	\$379.00	\$339.00		
Thermaltronics Replacement Iron	TS1585	\$159.00	\$142.90	\$126.90		
0.51mm Conical Tip [†]	TS1586	\$33.90	\$29.90	\$26.90		
0.2mm Conical Sharp Tip*†	TS1589	\$39.90	\$35.90	\$31.90		
1.0mm Conical Tip [†]	TS1587	\$33.90	\$29.90	\$26.90		
3.2mm Chisel Tip [†]	TS1588	\$33.90	\$29.90	\$26.90		



Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

ESD Safe Solder/Desolder Rework Station

Complete solder/desolder station for professional and hobbyist use Designed for soldering and desoldering all types of surface mounted IC, PCB, or components, and features an innovative heater and sensor that provides a quick heat-up and rapid temperature recovery. The unit will immediately enter into Working Mode when you pick up the handle, and return to Standby Mode when you put the handle back into the holder.

The control unit has two LED displays with controls to the set temperature and the actual tip or nozzle temperature in Celsius and Fahrenheit. The temperature is easily adjusted in 1° increments with simple up/down buttons and the soldering/rework functions can be operated independently of each other. ESD safe. The heat gun can be calibrated from 3L/min to 24L/min and is supplied with 3 extra heat-gun attachments for different size components and jobs. Spare soldering iron tips are available separately.



Specifications	TS1648
Soldering Iron:	4-pin, 24V, 60Watt
Hot Air Pump:	300W
Temperature Range:	
Soldering Iron	50-480°C
Hot Air Pump	100-500°C
Weight:	6kg
Dimensions:	155(L) x 125(H) x 110(W)mm
	6-1 05-4: 05-2: 05-4:

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rework Station	TS1648	\$289.00	\$259.00	\$229.00
0.5mm Conical Tip	TS1642	\$10.90	\$9.90	\$8.90
2mm Conical Tip	TS1643	\$10.90	\$9.90	\$8.90
3mm Bevel Tip	TS1644	\$10.90	\$9.90	\$8.90

FUME EXTRACTOR

Solder Fume Extractor

Removes dangerous solder fumes from the work area. Suitable for use in production lines, service centres, R&D workbenches or the hobbyist. It incorporates a ball bearing high volume fan to maximise airflow which is directed upwards at the rear of the unit to aid in safe dispersion of fumes. ESD safe.

- Spare filters, pack of 5 sold separately Cat. TS1581
- Dimensions: 260(H) x 200(W) x170(D)mm

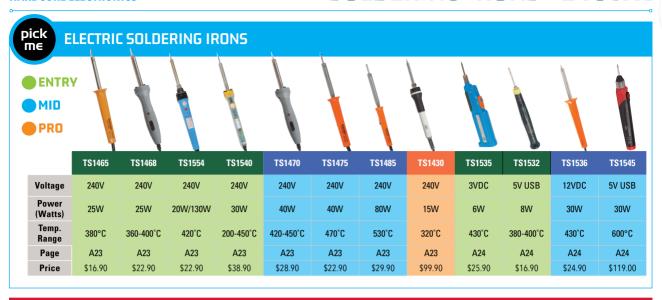




Don't pay silly prices elsewhere. This one works fine.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fume Extractor	TS1580	\$89.90	\$80.90	\$71.90
Spare Filters - Pack of 5	TS1581	\$11.90	\$10.70	\$9.50

A22 Freecall order hotline: 0800 452 922 jaycar.co.nz



SOLDERING IRONS - 240VAC

25W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip, impact resistant handle.

• Spare tip available TS1466



popular iron! **DURATECH**

	Cat.	Qty 1+	Qty 3+	Qty 6+
25W Soldering Iron	TS1465	\$16.90	\$14.90	\$13.90
Spare Tip	TS1466	\$5.80	\$5.20	\$4.60

Soldering Irons with LEDs

Brilliant! These soldering irons have built-in bright white LEDs so you can see what you're soldering more clearly for a better solder joint! They can be optionally switched on and off using the integrated

 Spare tip available TS1622 -0.5mm conical tip

Colour may vary to one shown.

	Cat.	Qty 1+	Qty 3+	Qty 6+
25W Soldering Iron	TS1468	\$22.90	\$20.90	\$17.90
40W Soldering Iron	TS1470	\$28.90	\$25.90	\$22.90
Spare Tip	TS1622	\$11.90	\$10.90	\$9.50

20/130W Turbo Soldering Iron

Sometimes you need that extra bit of heat in your soldering. Push the little red button on this iron and you get a lot more power, from 20 watts to 130 watts to be precise. Weller-style removable barrel, plated tip and ceramic

 Spare tips available: TS1555 - 0.5mm conical tip, TS1556 - 1mm conical tip, TS1557 - 2mm chise

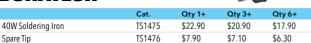


	Cat.	Qty 1+	Qty 3+	Qty 6+	
20/130W Turbo Soldering Iron	TS1554	\$22.90	\$20.90	\$17.90	
0.5mm Conical Tip	TS1555	\$5.90	\$5.20	\$4.70	
1mm Conical Tip	TS1556	\$5.90	\$5.20	\$4.70	
2mm Chisel Tip	TS1557	\$5.90	\$5.20	\$4.70	

40W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip impact-resistant handle.





30W Temperature Controlled Soldering Iron

If your budget doesn't extend to a soldering station, you can still have temperature control. This iron is adjustable with a dial on the handle.

- \bullet It has a temperature range of 200 450 $^{\circ}\text{C}$, high enough for silver
- soldering if needed
- Plated long-life tip
- Spare tip available TS1542 1mm conical tip



	Cat.	Qty 1+	Qty 3+	Qty 6+
30W Soldering Iron	TS1540	\$38.90	\$34.90	\$30.90
1mm Conical Tip	TS1542	\$5.90	\$5.20	\$4.70

80W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip, impact resistant handle.

 Ideal for heavy electrical

WARRANTY

work, lugs, etc. Electricity safety approved

DURATECH

Spare tip to suit use Cat. TS1486



Cat Otv 1+ Otv 3-Otv 6+ 80W Soldering Iron TS1485 \$29.90 \$26.90 \$23.90 TS1486 \$10.90 \$9.50 \$8.50 Spare Tip

15W goot* Soldering Pencil - 240V

This high quality soldering iron is made in Japan by goot*. This soldering iron offers exceptional heat recovery. The ceramic heater is automatically controlled by the heating load of the tip. With its high insulation and low current leakage, soldering of precision flat ICs and CMOS is safe. The heater on/off control uses a zero-volt switch circuit which reduces electrical noise.

- Tip temperature is set at 320°C
- The power lead is made from silicone rubber very flexible
 The handle incorporates a ribbed rubber piece for extra grip



	Cat.	Qty 1+	Qty3+	Qty 6+
15W Soldering Pencil	TS1430	\$99.90	\$89.90	\$79.90
0.5mm Conical Tip (As Supplied)	TS1432	\$24.90	\$22.40	\$19.90
0.3mm Conical Tip	TS1434	\$24.90	\$22.40	\$19.90
3.0mm Chisel Tip	TS1436	\$24.90	\$22.40	\$19.90

SOLDERING STARTER KITS

My First Soldering Iron

At last you can have your own soldering iron with minimal adult supervision (min 12 years+). It includes a full power iron with long-life tip, a spare tip, stand for the iron (when it's hot), metal solder removal sucker and a generous portion of 1mm solder wire in a handy dispenser tube. This set will become your best friend in the world of electronics!



25W Soldering Iron Starter Kit with DMM

The ideal starter package for young electronics enthusiasts or the home handyman, this kit contains everything needed for basic electronics work, electronics projects or automotive circuits. The kit includes:

- Digital multimeter
- 25W soldering iron with spare tip
- Phillips head screwdriver
- Flat head screwdriver
- Side cutters
- Long nose pliers



	Cat.	Qty 1+	Qty 3+	Qty 6+
25W Iron Kit	TS1652	\$52.90	\$46.90	\$41.90
Spare Tip To Suit	TS1622	\$11.90	\$10.90	\$9.50

RECHARGEABLE SOLDERING IRON

Rechargeable Lithium-Ion Soldering Iron Set with Case

TS1651

Everything you need to solder without the need for mains power or butane gas. Power is provided by an internal Li-ion battery for up to 50 minutes of soldering from a full charge. A quick 5 minute charge can provide 90 seconds of use if the battery isn't charged when you go to use it. An integrated LED provides light to what you are soldering, and safety features include overcharge, over discharge, and short circuit protection. The kit comes complete in a handy carry case with one 12W soldering tip (500°C), one 30W soldering tip (600°C), hot knife, sponge, and solder. To charge, simply plug it into an available USB power source. ESD safe.

\$32.90

\$28.90

\$25.90

• 30W/12W Tips • Rechargeable Li-ion Battery

Starter Kit

- Hot Knife
- ESD Safe
- Up to 50 Minutes Continuous Use from a Full Charge • Regain 90 Seconds Use from a 5 Minute Charge
- LED Light for Illumination

RECHARGEABLE

Specifications TS1545 3.7V, 2500mAh Rechargeable Li-ion **Battery** Max. Temperature 600°C (12W Tip: 500°C, 30W Tip: 600°C)

Charging Time 3~4 Hours

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rechargeable	TS1545	\$119.00	\$106.90	\$94.90
30WTip	TS1546	\$14.90	\$13.90	\$11.90
12WTip	TS1547	\$14.90	\$13.90	\$11.90
Hot Knife Tip	TS1548	\$14.90	\$13.90	\$11.90

5V USB SOLDERING IRON

USB Powered 8W Soldering Iron

This handy little soldering iron will work anywhere you have USB power, which let's face it, is basically everywhere these days. Even if it's from a laptop or power bank, USB power is almost easier to come by than mains power when away from the home or office, or in the workshop or shed. Unlike a conventional mains iron which heats up persistently, this one has a touch-switch to activate, and it rapidly heats to 380-400°C in just 15 seconds, and you're ready to solder. The heating element is rated at 8W, so it's useful for fine electronics and small jobs not sinking a lot of heat (such as thick cables, better left for appropriate soldering irons). The heating element is integrated into the soldering tip, so heating and cooling is very rapid. Includes a long life tip, protective

cap, and USB power cable. Note - at 8W, your USB port will need to be rated with at least 2A, which most newer charging ports are equipped to

- supply. Older USB ports may struggle to power this device • Heats up in under 15 seconds
- Long-life tip with protective cap
- Automatic shutoff
- Cools down in under 30 seconds

•	2 in	1	heating	elemen	t and s	olderin	g tip	

Auto Shut Off		25 Seconds Idle		
Weight	1	25g		
Dimensions		170(H) x 20(Dia.)	mm	
Cat.	Qty 1+	Qty 3+	Qty 6+	
TC4 F 2 0	£1/00	£14.00	£42.00	

TS1532

380°C - 400°C

5V USB

8W

USB Powered TS1532 \$13.90

12V SOLDERING IRONS

30W 12VDC Soldering Iron with Cigarette Lighter Plug This 12V 30W soldering iron features a fused

cigarette lighter plug lead to allow you to power it from the car cigarette lighter socket. Ideal for automotive soldering. Metal sheet solder stand included.



	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	TS1536	\$24.90	\$22.40	\$19.90

BATTERY POWERED SOLDERING IRON

6W Soldering Iron - Battery Powered

We have been surprised by the popular acceptance of this product, considering its modest power rating. Don't expect too much, but it will re-solder a dry joint or fix a solder lug, etc. It is

ideal in potentially explosive situations, such as a bilge, or where petrol fumes may be present. Reaches full temp in about 10 seconds. • Uses 3 x AA batteries (not included)

Specifications

Tip Temperature

Power

Safety cover that locks the switch to

so it won't discharge inside your tool box Dimensions:

	Cat.
175(L) x 36(W) x 18(D)mm	

X 10(D)IIIII				
	Cat.	Qty 1+	Qty 3+	Qty 6+
Battery	TS1535	\$25.90	\$22.90	\$20.90

A24 Freecall order hotline: 0800 452 922 iavcar.co.nz

GAS SOLDERING IRONS

GAS SOLDERING IRONS

Low Cost Gas Soldering Irons

A low cost alternative, this butane gas soldering iron features adjustable tip temperature and a fold-out stand. Remove the soldering tip and you have a flame torch for heatshrink etc. Great for soldering, cutting plastic, or heat shrinking plastic.

• 210mm long TS1111



GAS SOLDERING IRON / TORCH KIT

Extra soldering, torch and cutting tips are included, all housed in a moulded storage case.

- 3 soldering tips, 1 rope cutter, 1 torch attachment
- 178mm long



TS1112



Cat. Qty 1+ Q	Ωty 3+	Qty 6+
Soldering Iron - Gas TS1111 \$34.90 \$	30.90	\$27.90
Soldering Iron/Torch Kit TS1112 \$47.90 \$-	42.90	\$38.40
Spare Catalyst TS1104 \$17.90 \$	15.90	\$14.30
1mm Conical Tip TS1105 \$5.90 \$.	5.20	\$4.70
Butane Gas - 150g NA1020 \$5.60 \$.	5.00	\$4.45

3 in 1 Heat Blower & Soldering Iron

A handy 3-in-1 unit with flame or flameless heat blower and soldering iron function. Great for general heating, drying, melting, soldering, heat shrinking etc. It also features adjustment for temperature control, Piezo ignition, child resistant latch and uses butane gas. The tip has a sturdy cap for when not in use. Ideal for hobbyists and professionals alike. Spare 1mm Conical Tip available: TH1603

Butane gas required - use NA1020.



Specifications	TH1604
Operating Time	55-95min
Gas Capacity	10ml
Temp. of Hot Blow	Up to 500°C
Temp. of Soldering	Up to 450°C
Dimensions	144(L) x 35(W) x 23(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Gas Soldering Iron	TH1604	\$39.90	\$35.90	\$31.90
1mm Conical Tip	TH1603	\$4.90	\$4.30	\$3.90

3 in 1 Mini Gas Soldering Tool Set

A handy gas soldering iron with flame or flameless heat blower function. Great for general heating, drying, melting, cutting, soldering, heat shrinking etc. It also features adjustment for temperature control, Piezo ignition, retractable stand, visible gas tank and child resistant latch. The tip has a sturdy cap for when not in use. Carry case includes 1mm tip, 3mm chisel tip, 5mm angle tip, hot knife tip, 1mm solder hobby pack, cleaning sponge and tray.

Spare 1mm Conical Tip available: TH1603 Butane gas required - use NA1020



Case Dimensions

WARRANTY		
Specifications	TH1606	1
Operating Time	55-95min	
Gas Capacity	7ml	!
Power Range	25W to 70W	
Flame Temp	Up to 1300°C	
Iron Dimensions	148(L) x 35(W) x 23(D)m	nm

	Cat.	Qty 1+	Qty 3+	Qty 6+
3 In 1 Mini Gas Soldering Tool Kit	TH1606	\$58.90	\$52.90	\$46.90
1mm Conical Spare Tip	TH1603	\$4.90	\$4.30	\$3.90

175(W) x 125(D) x 33(H)mm

Note: All gas soldering products use the same butane gas, NA1020 shown on page A30

Pro Gas Soldering Tool Kit

A sturdy, portable, self-igniting butane powered gas soldering iron tool kit with 3 tips. Produces a 1300°C adjustable flame for low end brazing, tin/plastic melting, automotive repair work, welding and of course heat shrinking.

Supplied with 3 interchangeable metal tips for PCB work. A handy retractable stand as well as being supplied in a plastic carry case that includes a cleaning sponge, extra tips, a deflector and a cap for the soldering iron.



Specifications	TS1113
Operating Time	80-100 min (on minimal flame)
Gas Capacity	20ml
Ignition	Internal Piezo Crystal igniter
Weight	115g without gas
Temperature Of Torch	Up to 1300°C
Temperature Of Hot Blow	Up to 650°C
Temperature Of Soldering	Up to 500°C
Case Dimensions	236(L) x 32(W) x 37(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pro Gas Soldering Tool Kit	TS1113	\$94.90	\$84.90	\$75.90
3mm Flat Tip	TS1116	\$6.90	\$6.20	\$5.50
4mm Chisel	TS1117	\$6.90	\$6.20	\$5.50
Blower Tip	TS1118	\$16.90	\$14.90	\$13.90
Butane Gas - 150g	NA1020	\$5.60	\$5.00	\$4.45

Gas Soldering & Heatshrink Kit

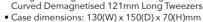
Excellent value and a handy kit to have close at hand for those quick and urgent repairs. Includes many of the necessary accessories for your wiring and soldering needs, making it an ideal kit for the home handyman, enthusiast or electrician. Supplied in a hard plastic carry case.

This kit contains:

- Pro Gas Soldering Iron with built-in stand, and cap
- Spare tips included: Chisel tip, anvil tip, flat tip, deflector

- Solder, cleaning sponge
 3mm Desolder Braid (NS3020)
 115mm Stainless Steel Side Cutters (TH1890)
- Heavy Duty Wire Stripper/Cutter/Crimper with Wire Guide (TH1827)
- Small 9 x LED Torch 26(Dia.) x 84mm (Requires 3 x AAA batteries)
- 28 Piece Screwdriver set
- Heatshrink assortment:
- 1.5mm 20 x black, 5 x red, 5 x clear 2.5mm 10 x black, 3 x red, 3 x clear 3.0mm 8 x black, 2 x red, 2 x clear 5.0mm 7 x black, 2 x red, 2 x clear 6.0mm 3 x black, 1 x red, 1 x clear

• Straight Demagnetised 116mm Long Tweezers,





INCLUDES PRO GAS SOLDERING IRON

Cat.	Qty 1+	Qty 3+	Qty 6+
TS1115	\$159.00	\$142 90	\$126.90

PORTASOL GAS SOLDERING IRONS

Portasol® Technic **Gas Soldering Iron**

The Portasol® Technic combines compact power, and convenient reliability, making it one of the most versatile gas soldering irons available. It offers a run time of around 60 minutes, and tip temperature is adjustable up to 450°C. With equivalent electrical power of between 10 and 60 Watts, it is ready to tackle just about anything. The protective end cap features a built in flint type igniter, and if the gas is left on, it will turn it off when replaced. If a compact, versatile and reliable gas iron is what you're after, then the Portasol* Technic is for you.

Includes Tip Cover.





Portasol® Pro Piezo **Gas Soldering Iron**

The Portasol® Pro Piezo is a powerful gas soldering iron featuring an adjustable temperature control adjustable temperature control allowing soldering tip temperatures up to 580°C. With equivalent electrical power of between 15 and 75 Watts, there is little that's not possible with this beauty. It incorporates a viewing window at the end of the gas tank, to keep an eye on the fuel level. The fuel tank fills in around 20 seconds, and will provide approximately 45 minutes of run time. Ignition is via the built in Piezo crystal mechanism, and the end cap provides safety gas shut off when replaced. The Portasol* Pro Piezo is a dream to use, and will not let you down.

• 2.4mm double flat tip supplied Includes Tip Cover.



Portasol® Super Pro **Gas Soldering Iron**

The Portasol® Super Pro is the big brother of all irons in the range. It features adjustable tip temperature up to 580°C, with equivalent electrical power of between 25 and 125W! 125W may seem somewhat excessive to some. You don't need a V8 to drive around town, but it's nice to know that the power is there when it's needed isn't it? Ignition is achieved with the internal Piezo crystal mechanism, and run time is around 2 hours on a 30 second refill. The stainless steel finished gas tank features a viewing window to keep an eye on fuel level, & the protective end cap also acts as a safety cut off for the gas valve control when replaced. With the various tips available & huge power at hand, no job is a match for the Portasol* Super Pro.

• 2.4mm tip supplied Includes Tip Cover.



portasol

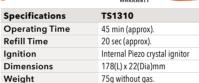




Specifications	TS1305
Operating Time	60 min (approx).
Refill Time	10 sec (approx).
Ignition	Flint ignitor in end cap.
Dimensions	170(L) x 19(Dia)mm.
Weight	60g without gas

Cat.	Qty 1+	Qty 3+	Qty 6+
TS1305	\$84.90	\$75.90	\$67.90
TIPS TO SUIT		Cat.	Qty 1+
1.0mm Conical		TS1306	\$28.90
2.4mm Chisel		TS1307	\$28.90
4.8mm Chisel		TS1308	\$28.90

oortaso



Cat		Qty 1+	Qty 3+	+	Qty 6+	
TS1:	310	\$139.00	\$124.9	0	\$110.90	
TIPS TO SU	JIT		Ca	t.	Qty	1+
1.0mm Chis	sel		TS1	1311	\$28.	90
2.4mm Chis	sel		TS1	1312	\$28.	90
4.8mm Chis	sel		TS1	1313	\$28.	90
Hot Air Blow	ı		TS1	1314	\$28.	90
Hot Knife			TS1	1315	\$28.	90

oortasa



Cat.	Qty 1+	Qty 3+	Qty 6+
TS1320	\$169.00	\$151.90	\$134.90
TIPS TO SUIT		Cat.	Qty 1+
1.0mm Chisel		TS1321	\$29.90
2.4mm Chisel		TS1322	\$29.90
4.8mm Chisel		TS1323	\$29.90
Hot Air Blow		TS1324	\$29.90
Hot Knife		TS1325	\$29.90

A leading brand recognised worldwide. Portasol* products are designed and manufactured in Ireland, to the highest quality standards. Since commencing operation in 1983, they have forged their way into the market with some of the most rugged & reliable gas powered soldering & heating tools in the world. They utilize catalytic combustion (flame tips excluded), which converts the gas flame into infrared radiation. It is a safe, flameless way of heating the tips evenly and continuously. They all use standard butane gas, and have a variety of tips available to support a wide range of applications.

Portasol® Pro Piezo **Gas Soldering Tool Kit**

This kit contains a Portasol® Pro Piezo Gas Soldering Iron and the following.

- Quality storage case2.4mm double flat tip (TS1312)
- Hot knife tip (TS1315)
- Flame tip (T\$1316)
- Cleaning sponge and tray
 Hot air blow (TS1314)
- Hot air deflector



WARRANTY

Portasol® Super Pro Gas Soldering Tool Kit

Features 120 minute run time, 30 second fill, maximum 580°C temperature and 40 second heat up. This kit contains a Portasol® Super Pro Gas Soldering Iron and the following.

- · Quality storage case
- Hot Air Blow
- Cleaning sponge and tray.
- Hot knife tip (TS1325)2.4mm double flat tip (TS1322)
- Hot air deflector
- 4.8mm flat tip (TS1323)



\$158.90

	portasol*
ProPlezo	
13	

Cat.	Qty 1+	Qty 3+	Qty 6+	Cat.	Qty 1+	Qty 3+
TS1318	\$169.00	\$151.90	\$134.90	TS1328	\$199.00	\$178.90

BUTANE TORCHES & SERVICE AIDS

GAS TORCHES & COMBOS

Pencil Butane Torch

Pocket sized gas torch for heatshrinking, soldering etc., and uses standard butane gas. Adjustable flame, all metal construction.

• Dimensions: 205(L) x 13(Dia)mm



Compact Pocket Size Gas Blowtorch

At only 95mm high, this product is amazing. It is a fully self-contained Butane 1300°C portable blow torch. It has simple press button Piezo ignition, flame control and safety lock. The unit can be recharged with a suitable Butane refill (such as the NA1020). It will take 7g of gas which will give 30 minutes of use at mid setting. Has protective burner cap.

Ideal for:

- Low temp silver solderingHeat Shrinking
- Soft soldering ("sweating")
- Hobby use
- Food preparation etc.
- Dimensions: 95(H) x 55(L) x 26(W)mm

• Weight 45g (dry)
For suitable Butane Gas use NA1020. For Silver Solder use NS3045.



GAS BLOWTORCH

DURATECH

ROVIN

CARTRIDGE

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1610	\$34.90	\$30.90	\$27.90

Gas Blow Torch with Butane Gas

Useful for lighting a combustion fireplace, out camping, and a range of handyman and hobbyist functions. Lit with an integrated piezo igniter this unit attaches directly onto the gas canister, so you can just get the job done. You'll get more than 2hrs usage from a single can

- One-touch automatic piezo ignition
- Ergonomic design
- Adjustable temperature



WARRANTY				
Specifications	TH1632			
Gas Consumption	100g/hr			
Included Gas	Butane 220g			
Weight	174g (torch unit			
Dimensions	180(L) x60(W) x			

Dimensions	180(L) x60	180(L) x60(W) x 35(H)mm					
	Cat.	Qty 1+	Qty 4+	Qty 10+			
Gas Blow Torch	TH1632	\$39.90	\$35.90	\$31.90			
4 x 220g Spare Gas	NA1021	\$8.90	\$8.00				

Piezo Ignition Butane Gas Torch

Perfect for silver soldering, brazing, heat rearrect for silver soldering, brazing, neat treating, heatshrinking, paint removal etc. It's able to produce a flame about 100mm long, so is capable of more than light-duty work. The 64ml tank gives a burn time of 60-70 minutes and uses any butane gas. It also has an adjustable flame, a child-proof piezo ignition button and a stand so you don't knock it over and burn the bouse down. burn the house down.

- Piezo ignition with safety lock1300°C adjustable flame
- Butane gas refill: NA1020
- Dimensions: 150(H), base 69 x 69mm





HEAT GUN

2000W 240V Adjustable

Temperature Heat Gun A powerful 2000W mains powered heat gun with selectable 400°C or 600°C heat settings. Supplied with four head attachments, making it suitable for many DIY applications, including shaping plastic tubing, shrinking heatshrink sleeving, removing paint, softening adhesives, defrosting metal water pipes, and more. Mains powered.

*		2			
Specifications	TH1609				
Temperature / Air Flow	400°C 250L/M / 60	00°C 500L/M			
Dimensions	80(W) x 242(D) x 205(H)mm				
Weight	660g				
	Cat.	Qty 1 +	Qty 3+	Qty 6+	
	TH1609	\$33.90	\$29.90	\$26.90	

FLUX

Solder Flux Pen - 12ml

A quick drying, no-clean flux for use when removing or replacing surface mount components. Applying the flux to solder joints will aid re-flow when heating the joint to remove the component, or it can be applied to bare copper or tinned tracks providing excellent solderability.

- Dries in 5 to 10mins
- Handy 12ml pen with chisel tip



	Cat.	Qty 1+	Qty 3+	Qty 6+
12ml Pen	NS3036	\$15.90	\$14.30	\$12.70

Solder Flux Paste - 56g Tub

A mildly-activated agent to provide superior fluxing ability, which enables you to produce high quality soldered joints, and reducing solder waste. The active ingredients in DeoxIT* Rosin Soldering Flux are non-ionic and non-conductive, and ideal for situations when postsoldering cleaning is not possible, and the residue must be highly insulating.

- Non-flammable
- Non-corrosive

	Cat.	Qty 1+	Qty 3+	Qty 6+
56g Tub	NS3070	\$20.90	\$18.90	\$16.90
		•	rech	talk

CHEAP & NASTY BUT EFFECTIVE FLUX

Before solder wire had a core of flux in it you had to use a paste, or a liquid flux. The liquid was Zinc Chloride. It was made by getting some hydrochloric Acid (Muriatic Acid) and dropping zinc into it. The most common source of zinc was bits of galvanised iron. When you dropped the zinc into the acid bubbles would come off. When the bubbles stopped, the zinc had replaced the Hydrogen in the acid. The Hydrochloric acid was then called "killed spirits." The killed spirits was a great flux to solder together, say, brass or copper - or even galvanised iron. Of course, this was potentially dangerous but that was what you did in the good old days!

P.S. don't forget to wear safety goggles if you attempt this.

P.S. don't forget to wear safety goggles if you attempt this.

SOLDER

Classic Solder:

- 60% Tin / 40% Lead
- 1.0 & 0.71mm diameters available
- Rosin cored
- Rolls & hobby packs available

500g rolls now available

DURATECH



SOLDER WIRE

SILVER SOLDER

"Silver" Solder

Far, far stronger than tin/lead solder. The product is basically pure tin with around 4% silver. It contains no lead or cadmium. It melts at 221°C so could be actually soldered with a very hot soldering iron but best results are with a butane type blowtorch. Includes an adequate amount of liquid flux which is basically zinc chloride, water, ammonia and other chlorides. The flux is an eye irritant so safety goggles should be worn

- 14g solder with 14g of flux
- MSDS supplied



	Cat.	Qty 1+	Qty 3+	Qty 6+
14g Solder + 14g Flux	NS3045	\$34.90	\$30.90	\$27.90

DESOLDER BRAID

3mm Desolder Braid

A specially treated piece of braid for removing solder from a PCB. Place the braid over the solder and apply soldering iron to efficiently remove solder. 3mm wide, 1500mm long.



goot

MADE IN

Stay-Clean

	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
3mm Wide	1500mm	NS3020	\$3.90	\$3.40	\$3.00

goot® Desolder Braid

High quality goot* brand gootwick, made in Japan. Contains wash-free RMA flux, conforms to MIL-F-14256F.

- Plastic reels
- 1.5m long







	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5mm Wide	1500mm	NS3026	\$7.90	\$7.20	\$6.50
2.0mm Wide	1500mm	NS3027	\$7.90	\$7.20	\$6.50
3.0mm Wide	1500mm	NS3028	\$7.90	\$7.20	\$6.50

Lead-Free Solder:

- 99.3% Tin / 0.7% Copper Lead Free 1.0 & 0.71mm diameters available
- Rosin cored
- Rolls & hobby packs available



DURATECH

Size	Hobby Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	15-20g	NS3086	\$3.90	\$3.40	\$2.90
1.00mm	15-20g	NS3092	\$3.90	\$3.40	\$2.90
Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	200g	NS3088	\$29.90	\$26.90	\$23.90
1.00mm	200g	NS3094	\$29.90	\$26.90	\$23.90
Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	500g	NS3090	\$69.90	\$62.90	\$55.90
1.00mm	500g	NS3096	\$69.90	\$62.90	\$55.90

DESOLDER TOOLS

Plastic Desolder Tool

ABS plastic body with strong suction. Very easily cleaned. Total length including tip 195mm.



Metal Desolder Tool

Made of lightweight metal and has strong suction.

- Constant vacuum force
- · Cleans itself with each action Replacement tip (Teflon)
- Total length incl tip 195mm

			-	- Testan
	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH1862	\$18.90	\$16.90	\$14.90
Spare Tip	TH1863	\$5.90	\$5.20	\$4.70

Deluxe goot® Desolder Tool

High quality goot* brand desoldering tool. Japanese built quality and a large vacuum chamber for strong

• Large vacuum chamber

• Total length: 330mm





		,	,	,
Tool	TH1856	\$37.90	\$33.90	\$29.90
Spare Tip	TH1857	\$10.90	\$9.50	\$8.50

Solder Sucker & Blower Bulb

A quick & simple bulb type solder sucker that is cheap compact and effective. Buy two or three and you will always have one handy.

- Approximately 50(D) x 110(L)mm
- Versatile! Suck or blow



goot

MADEIN

	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Sucker	TH1850	\$11.90	\$10.90	\$9.90

SOLDERING & ACCESSORIES

SOLDER PASTE

Classic Solder Paste - 15g SMD Syringe

Ideal for surface mount work and rework, solder paste provides a quick and easy soldering solution. Supplied in a syringe for easy application, simply apply it to the soldering pads, put your components in place and heat it with your soldering iron. Solder paste can go off in storage: we've found a local your soldering iron. Solder paste can go on in storage: We verboard a local supplier so you can always be confident that the paste you get will be fresh. 63% tin 37% lead. Solder paste is best kept cool for long life and should be kept refrigerated. Please ask sales staff for this product, as it will be kept in refrigerated storage, not on display.

Dimensions: 120(L) x 15(Dia)mm



Lead-Free Solder Paste - 10g SMD Syringe

Lead free solder paste syringes provide a quick and easy soldering solution for your surface mount work and rework. The superior wetting ability of this paste results in bright, smooth and shiny solder joints with lead free alloys. Supplied in a syringe for easy application, simply apply to the soldering pads, put your components in place and heat it with your soldering iron or hot air rework tool



STANDS, CLEANERS & PCB HOLDERS

Soldering Iron Stands

General-purpose stand for just about any electronics soldering iron. It has a large, thirsty tip-cleaning sponge & pressed metal base.

- Base: 84(W) x 130(D) x 25(H)mm
- Holder: 105(L) x 40(W)mm
- Complete height: 120mm

DELUXE

Ideal for heavier soldering irons. It features a hefty cast iron base with removable sponge tray and twin spiral iron holder

- Base: 78(W) x 115(D) x 30(H)mm
- Holder: 135(L) x 45(W)mm
- Complete height: 145mm



				151507
	Cat.	Qty 1+	Qty 3+	Qty 6+
Economy Stand	TS1502	\$11.90	\$10.70	\$9.50
Spare Sponge To Suit TS1502	TS1503	\$3.50	\$2.90	\$2.60
Deluxe Stand	TS1507	\$21.90	\$19.70	\$17.30
Spare Sponge To Suit TS1507	TS1508	\$4.90	\$4.10	\$3.70

TS1502

Solder Stand with Solder Dispenser

Every technician needs one of these on their workbench! It will hold our solder reels and the solder is fed through the guide. It has a handle, so it can easily be carried, and it can be wall mounted to be right there where you always need it. The base is super heavy so even when the solder

reel is nearly empty it will feed ok. • Shaft diameter is 16mm, will hold our 1kg rolls

- Weight 620g

• Dimensions: 90(L) x 100(W	') x 110(H)mm	1			
	Cat.	Qty 1+	Qty 3+	Qty 6+	
Solder Dispenser	TS1504	\$29.90	\$26.90	\$23.90	

PCB Holder

Holds a PCB up to 200 x 140mm in size. The PCB is held in place by spring clamps and can be rotated through 360° at increments of 15°. The base is heavy with well-balanced centre of gravity and built-in rubber feet to ensure

you have a firm working surface. Suitable for working with different shaped components, connectors, soldering strips, etc.

- Max holding size: 200(L) x 140(W)mm • Dimensions:
- 300(L) x 165(W) x 125(H)mm, 450g



WARRANTY

1+	Qty 3+	Qty 6+	

PCB not included

Cat. Qty PCB Holder TH1980 \$24.90 \$22.40 \$19.90

Third Hand PCB Holder

Ideal aid for PCB assembly soldering work, model making, crafts and any application where a third hand is needed. The two strong alligator clips firmly hold parts in place, and six ball joints on moveable arms lock at any angle for the optimum position while you work. A heavy cast iron base énsures added stábility.



	Cat.	Qty 1+	Qty 3+	Qty 6+
Third Hand PCB Holder	TH1982	\$10.90	\$9.90	\$8.90

goot* Soldering Iron Tip Cleaner

The "curly brass" insert doesn't need to be kept wet and cleans without damaging the tip. Uniform iron temperature ensures consistent joint quality and reduces cycle times. It's made from a heavy-duty heat-resistant rubber base that won't slip around on the bench, is static-safe and is also suitable for leadfree solders.



• Dimensions-Insert: 45(Dia) x 30(H)mm / Overall: 58(Dia) x 58(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Tip Cleaner	TS1510	\$21.90	\$19.30	\$16.90

Soldering Iron Tip Cleaning Paste

A healthy tip makes for easier soldering and better heat transfer. This tip contains powdered solder and non-corrosive flux, so all you need to do is dip your hot soldering tip in, and it will clean and tin in one simple action.



	Cat.	Qty 1+	Qty 3+	Qty 6+	
20g Tin	TS1512	\$15.90	\$13.70	\$12.30	

PCB Holder with LED Magnifier

Ideal aid for PCB assembly, soldering work, model making and any application where a third hand is needed. This helping hand has a magnifying glass with LED light that provides continuous light for up to 10 hours. The two strong alligator clips can be adjusted in numerous ways to hold the board as you solder.

Heavy cast iron base ensures added stability. Comes complete with

- a soldering iron holder.
- 2 x White LEDs • 90(Dia.)mm lens

MADE IN

- 2x lens magnification Requires 3 x AAA
- Overall height: 190mm Base dimensions: 114(L) x 75(W) x 29(H)mm



batteries

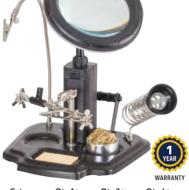
WARRANIY				
	Cat.	Qty 1+	Qty 3+	Qty 6+
PCB Holder with LED Magnifier	TH1987	\$29.90	\$26.90	\$23.90

STANDS, CLEANERS & PCB HOLDERS CONTINUED

LED Magnifying Lamp with Third Hand

The multi-purpose tool offers an excellent all round solution, ideal for working on small to medium PCBs, components, soldering etc. The magnifying lamp with integrated 3rd hand is intended for illuminating work areas and it is equipped with a magnifying glass. This device also comes with a soldering iron stand, alligator clips, soldering wire spool holder, sponge as well as a cleaning ball. Powered by 4 x AA batteries (not supplied).

- Magnifying glass lens size
- Magnification: 3x
- LED illumination: 16 LEDs Neck (for magnifying glass)
- length: 265mm Neck (for alligator clips)
- length: 250mm
 Sponge size: 30 x 50mm
- Base size: 190 x 170mm



				WARRAN	
	Cat.	Qty 1+	Qty 3+	Qty 6+	
LED Magnifying Lamp with Third Hand	TH1989	\$58.90	\$52.90	\$46.90	

SERVISO

LITHIUN

SOLDERING TOOL KIT

6 Piece Soldering Tool Kit

This kit provides a selection of hand-tools and accessories invaluable for soldering work. There's a Phillips screwdriver, a pair of spring-loaded tweezers, and a heatsink clip for soldering heat-sensitive components. Three assorted double-ended tools are also included for poking, scraping, legbending, and even a wire-brush for flux-removal. A great assortment, supplied in a handy case.



Supplied	in	а	handy	case.	

RVISO

R DUSTE

ERVISO

	Cat.	Qty 1+	Qty 3+	Qty 6+
6 Piece Kit	TH1851	\$16.90	\$14.90	\$13.40

SPRAYS & AEROSOLS

Lithium Grease

Long-lasting heavy duty lubricant grease for bearings, sliding mechanisms, battery terminals, chains, sprockets or other moving parts White in colour so it forms a kind of thick, milky sea in the lubricated area. Reduce friction, protects against corrosion



MADE IN

175g NA1012

	Cat.	Qty 1+	Qty 4+	Qty 10+
400g	NA1015	\$11.90	\$10.70	\$9.50

Dust Remover

Non CFC. Non flammable gas which allows removal of dust from electronic, electrical and optical devices. It does not leave residues and is non toxic and non conductive.

• Much safer than flammable versions sold elsewhere



2

	Cat.	Qty 1+	Qty 4+	Qty 10+
50g	NA1018	\$24.90	\$22.40	\$19.90

Freezing Spray

Non CFC ozone safe propellant. Instant freeze spray for rapidly cooling components to detect intermittent thermal faults, dry joints and overheating problems

• Non-flammable



MADE IN	
* .	

	Cat.	Qty 1+	Qty 4+	Qty 10+
250g	NA1000	\$24.90	\$22.40	\$19.90

Note: AEROSOLS CANNOT BE SENT BY AIR

Contact Cleaner Lubricant

A blend of non CFC solvents and RF contact treatment oil. Ideal for cleaning and lubricating nonarcing contacts and mechanisms. Can be used for cleaning & lubricating all types of contacts. Safe on most plastics.



\$10.90

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	Trsc mer
Qty 4+	Qty 10+

\$12.30

PTFE Dry Lubricant Spray

This water displacing PTFE lubricant is formulated to provide a dry, lubricating film that is perfect for use with electronic & mechanical assemblies, chains & sprockets, rollers, runners, & power tools etc. It prevents rusting on ferrous metals and helps loosen stiff or sticking parts. The spray can be used in automotive, marine and household environments



™				CTSG NET
	Cat.	Qty 1+	Qty 4+	Qty 10+
75g	NA1013	\$16.90	\$14.90	\$13.90

Butane Gas

Use it for filling up your gas soldering iron, flame torches cigarette lighters, etc. Includes five different adaptors, which cover most different gas valves.

• Includes filling instructions





5 adaptors supplied

	Cat.	Qty 1+	Qty 4+	Qty 10+	
150g	NA1020	\$5.60	\$5.00	\$4.45	

Circuit Board Lacquer

Non CFC ozone safe propellant. Premium quality flexible coating to protect printed circuit boards from humidity and environmental attack. Special solder through lacquer so previously coated boards can be soldered

Qty 1+

\$13.90



Electronic Cleaning Solvent Non CFC ozone safe propellant. A

highly efficient fast drying solvent of high purity. For use on delicate electronic, electrical & precision mechanical assemblies (i.e. tuners, switches, plugs, sockets, relays, pots, etc).





Spray-On Contact Adhesive

This pressure-sensitive contact adhesive is in an aerosol can, and bonds to paper, fabric, leather, rubber, foam, vinyl, concrete, metal, in fact almost any surface! No more spills and dribbles from a tube, or sticky screwdrivers (and plastic applicators) from applying glue to a surface. Great for laying innerbond and speaker carpet in/on speaker cabinets etc.



Cat.

400a NA1504

ERVISO
SPRAY-01
ADHESIV
See, MA-1504
0006 HET

\$17.30

	Cat.	Qty 1+	Qty 4+	Qty 10+
175g	NA1002	\$13.90	\$12.30	\$10.90

	Cat.	Qty 1 +	Qty 4+	Qty 10+
175g	NA1004	\$13.90	\$12.30	\$10.90

Qtv 1+

\$21.90

Qtv 4+ \$19.70

SERVICE CHEMICALS & INSULATION TAPES

Electronic Circuit Board Cleaner

Non CFC ozone safe propellant. It may not be obvious, but many circuit problems occur when flux and other contaminents (even finger prints) remain on the PCB causing 'leakage' between tracks. If you work with RF, high impedance (i.e. FET Op-Amps etc), ioniser or other circuits, PCB cleanliness is a MUST. This is a spray that dissolves flux residues & grime leaving the track work and board absolutely clean. We then recommend that you 'tropicalise' the board with circuit board lacquer (NA1002).



WATER DISPLACING LUBRICANTS

Water Displacing Lubricant Spray Can

Multi-use water displacing and rust preventing lubricant specially formulated for use with mechanical assemblies.

Displaces moisture from metal surfaces including: relays, switches, distributors etc. Quickly penetrates rusted and corroded metal parts like nuts and bolts, valves, tools. Also removes grease, chewing gum, adhesives, crayons from most surfaces.



WD40 150g Spray Can

bolts, valves, tools.

MADE IN

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Qty 4+	Qty 10+		Cat.	Qty 1+	Qty 4+	Qty 10+
\$12.30	\$10.90	175g	NA1025	\$6.90	\$6.20	\$5.50

Multi-use water displacing and rust preventing

lubricant specially formulated for use with

mechanical assemblies. Displaces moisture from metal surfaces including: relays,

switches, distributors etc. Quickly penetrates rusted and corroded metal parts like nuts and

INOX-MX3 Lubricant

175g

This product is similar to popular water displacement products EXCEPT that it does not contain silicone or kerosene based solvents etc. Indeed, it is so benign it can be used around food. It is also ideal for seized nuts or screws, freeing up hinges, door locks, as a cutting or tapping & other machining agent. As the product is nonconductive, it is ideal for removing moisture from car distributors, switches, potentiometers, solenoids etc. It does not dry or wash out in water. You will be delighted with this product. Two sizes are available:

Cat

NA1008

Otv 1+

\$13.90

Cat. NA1022 125g Pump Pack (can be sent by post) Cat. NA1024 300g Aerosol Spray (can't be sent by post)



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MADE IN

	Cat.	Qty 1+	Qty 4+	Qty 10+
150g	NA1029	\$9.90	\$8.90	\$7.90
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	Cat.	Qty 1+	Qty 4+	Qty 10+
125g	NA1022	\$9.90	\$8.90	\$7.90
300g	NA1024	\$14.90	\$13.90	\$11.90

Isopropyl Alcohol 99.8% Spray

Isopropyl alcohol is one of the most useful service aids you can have around. It has many of uses such as head cleaning, surface cleaning and prep, contact cleaning, stain removal in the laundry etc. It's also a medical-grade surface disinfectant. Easy to use pump pack spray bottle & dries quickly.

• 99.8% concentration

Cat. NA1066 250ml Aerosol Spray (can be sent by post) Cat. NA1067 300g Aerosol Spray (can't be sent by post)



	Cat.	Qty 1+	Qty 4+	Qty 10+
250ml	NA1066	\$7.90	\$7.10	\$6.30
300g	NA1067	\$12.90	\$11.90	\$9.90

Kleanitize 70% IPA **Isopropyl Rubbing Alcohol**

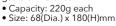
70% isopropyl alcohol (commonly known as 'rubbing alcohol' or Isopropanol) is a powerful cleaning solvent, disinfectant, and antiseptic. It is harmless to most plastics, elastomers, or rubbers, and is free of CFCs, chlorinated solvents, and denaturants



	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Litre	NA1071	\$22.90	\$20.90	\$17.90

Aerosol Butane Gas with Bayonet Fitting 4 Pack

Butane cartridges commonly used in gas stoves, heaters and butane gas blow torches.





	Cat.	Qty 1 +	Qty 4+	
4 x 220g cans	NA1021	\$8.90	\$8.00	

GOD-LIKE SPRAY CAN BEHAVIOUR

Many people will not go anywhere without a can of WD40. It is a great product and you will find it on this page. It is not the only God-in-a-can product that we stock, however. We also carry a similar product to WD40 called WD Lube (also on this page).

Lube (also on this page).

(WD means water displacement).WD-40 is a light hydrocarbon oil with penetration properties useful for moving seized parts. It also works as a rust preventer by leaving a thin layer of oil on steel. WD-40 earned its reputation as a moisture displacer in the days when cars would not start due to condensation under the distributer cap. A further refinement is a product called INOX MX3. It does not contain petroleum or silicone based products and is indeed an experience of the start due to the start due t MX3. It does not contain petroleum or silicone based products and is indeed non-poisonous (the other products are not strictly poisonous, just obnoxious to taste) so much so that you can spray INOX near food. All God-in-a-can products have come a long way from their original automotive use. They have great anti-corrosion and lubrication properties, for example. They continue to find applications all over the place, but with modern ignition systems you can probably safely leave home without a can.

TAPE

PVC Insulation Tape - 20m

High quality insulation tape suitable for wrapping electrical wires.

- Roll length: 20m, 19mm Wide
- Self-Extinguished within 2 seconds after being on fire
- Voltage breakdown: 8.0kV

		Cat.	Qty 1+	Qty 4+	Qty 10+
Black	20m	NM2856	\$2.20	\$1.95	\$1.75

PVC Insulation Tape

Top quality PVC tape.

- Two sizes and six colours available
- 18mm wide

Colo



lour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+	
Black	5m	NM2800	\$1.55	\$1.35	\$1.15	
Blue	20m	NM2801	\$3.60	\$3.20	\$2.85	
Red	20m	NM2802	\$3.60	\$3.20	\$2.85	
Black	20m	NM2803	\$3.60	\$3.20	\$2.85	
White	20m	NM2807	\$3.60	\$3.20	\$2.85	
Yellow/Grn	20m	NM2804	\$3.60	\$3.20	\$2.85	



TAPE CONTINUED

Insulation Tape - 5m - 6 Pack

Contains one roll each of black, white, red, blue, silver, yellow and green.

- 19mm wide
- Each 5 metres in length
- · Pack will vary from picture



	Cat.	Qty 1+	Qty 4+	Qty 10+
Pack of 6	NM2806	\$4.80	\$4.30	\$3.80

Gaffer Tape - 25m

This is not your cheap plastic stuff. It is the genuine cloth-backed tape that you can split with your thumbnail. This waterproof tape is black in colour, low sheen and is the industry standard 48mm wide. Commonly called "100 mile an hour" tape, or "gaffer" tape, it was originally developed for the air conditioning industry.

- It is very adhesive and very strong
 Ideal for taping down leads on stage
 Repairing flexible duct work
- Other public address setups
- Holding things together in general. A must in every toolbox!

		Cat.	Qty 1 +	Qty 4+	Qty 10+
Black	25m	NM2810	\$19.90	\$17.90	\$15.90

Nashua Gaffer Tape - 40m

PREFERRED BY THE PROFESSIONALS. Genuine Nashua brand Gaffer tape. Professional quality 40 metre rolls in both black and silver. Leaves no residue behind and sticks to most clean surfaces, including carpet. • 48(W)mm x 40(L)m.

Ideal for:

- Outdoor concerts & exhibitions
- Theatre & school productions
- Television studios
- Car racing

		Cat.	City i+	City 4+	City 10+
Black	40m	NM2812	\$42.90	\$37.90	\$33.90
Silver	40m	NM2814	\$42.90	\$37.90	\$33.90

Genuine "Gaffer" Brand Tape in Hi-Viz Colours - 10m

Genuine made-in-USA 24mm wide x 10m roll in Hi Viz fluoro green or hot pink. Matte finish. Ideal for highlighting a piece of equipment, avoiding a hazard, etc.100s of uses.

- Waterproof
- 24mm wide x 10m



	NM2813			INIVIZOTO	
	Cat.	Qty 1+	Qty 4+	Qty 10+	
Fluoro Green	NM2813	\$18.90	\$16.90	\$14.90	
Hot Fluoro Pink	NM2815	\$18.90	\$16.90	\$14.10	

Self Amalgamating Tape - 10m

This insulating tape will "cure" into a single mass (once applied) to help seal and waterproof cable, wires or even pipes. The tape has good corona resisting properties and can be used on high voltage cables. Useful where water and chemical resistance is important.



	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	NM2826	\$29.90	\$26.90	\$23.90

Aluminium Foil Tape - 50m

To be used in any number of situations including RF shielding.

- Foil thickness: 0.04mm
- Raw material: Aluminium foil, Acrylic-based adhesive
- Width 25mm or 50mm
- Application Temp.: -20°C to 120°C

		Cat.	Qty 1+	Qty 4+	Qty 10+
50mm	50m	NM2860	\$21.90	\$19.30	\$16.90
25mm	50m	NM2862	\$15.90	\$14.30	\$12.70

Coax Seal Tape

This versatile material looks like ordinary PVC electrical tape but is actually a handy sealing system that fuses together to form a removable, waterproof seal once it has been applied. The tape has many uses such as waterproofing outdoor coax connections, sealing low pressure vacuum lines, or even as an alternative to heat

shrink tubing when access is

- 12(W)mm x 1.5(L)m
- Used by NASA & US Military



1.5m NM2828 \$15.90 \$13.70 \$12.30		Cat.	Qty 1+	Qty 4+	Qty 10+
	1.5m	NM2828	\$15.90	\$13.70	\$12.30

Double Sided Mounting Tape

Thousands of uses, from mounting PCBs in your project to putting up a poster. Both are doublesided with adhesive.

- 12mm wide
- Two roll sizes



	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	NM2821	\$5.90	\$5.20	\$4.70
25m	NM2823	\$4.90	\$4.10	\$3.70

UGlu* Industrial Glue Strips

Make quick repairs without tools. Simply cut a strip to the size you need, then fix just like double-sided tape to create a permanent, instant bond. Bonds to just about anything - carpet, plastic, canvas, wood, metal, tile, plasterboard, cement, paper, glass, even on rough surfaces. Non-toxic, acid free, no mess. Millions of uses at home,

office and workshop. Pack contains eight

75 x 30mm strips.

- Instant bond, permanent hold
- Waterproof and weatherproof
 Removable Safe for kids to use
- Made in USA

		Cat.	Qty 1+	Qty 4+	Qty 10+
Pack of 8	75 x 30mm	NA1522	\$11.90	\$10.90	\$9.90

Silicone Protective and Repair Wrap - TUFF TAPE

TUFF TAPE is a self-bonding wrap made from a special high quality silicone rubber compound which adheres to itself when wrapped under tension. The tape forms a non-conductive, air and water tight, insulating seal. Hundreds of uses including emergency radiator hose repair, plumbing or garden hose repair, extension cord connections, marine, sport and tool grips, etc. Buy one for the glove box and another for the tool box.

- Won't melt up to +260°C
- Remains flexible down to -50°C
- Tensile strength of 600psi
- Insulates to 400 volts/mil.
- 25mm wide x 3m long







NA2830	NA2832	NA2834
	Cat. Qty	1+ Qty 4+ Qty 10+
Black 3m	NA2830 \$16	.90 \$14.90 \$13.40
Red 3m	NA2832 \$16	.90 \$14.90 \$13.40
Clear 3m	NA2834 \$16	.90 \$14.90 \$13.40

Adhesive Copper Tape 5mm x 10m

Copper Tape with adhesive backing.

- Solderable
- Repair printed circuit boards
- Create antennas and shielding
- 5mm x 10m



	Cat.	Qty 1+	Qty 4+	Qty 10+
10m Roll	NM2870	\$7.90	\$7.10	\$6.30

Where's My Local Jaycar Store?

Use our store finder on our website. With over 300 Jaycar stores and Authorised Resellers, just type in your postcode of area to find the closest one to you.



ADHESIVES

ADHESIVES

Epoxy Bond 34ml

Two part epoxy resin bonds in approximately 4 minutes to give a colourless, permanent bond. Maximum strength after 1 hour. Ideal for rigid plastics, metal, glass, concrete, china & pottery. Supplied in 34ml tubes.



	Cat.	Qty 1+	Qty 4+	Qty 10+
34ml Tubes	NA1510	\$11.90	\$10.90	\$9.90

PlasticWeld Epoxy Putty

After mixing, it forms a polymer compound that can be moulded or used to build up and repair just about anything made from plastic. When cured, it can be sawed, drilled, carved, sanded and painted. Great for rigid & semi-flexible plastic, ABS, PVC & CPVC pipes, automotive trim & bumpers, fibreglass parts, vinyl siding, etc.

- 20-25 minute work life; functional cure occurs in 2-3 hours
- Cures to an off-white colour
- Rated at a tensile strength of 350 PSI
- 57g tube

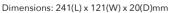
Note: Does not adhere to polyethylene, polypropylene or some other plastics. Test for adhesion first.



Cat.	Qty 1+	Qty 4+	Qty 10+
NA1526	\$22.90	\$20.90	\$17.90

Bondic Liquid Plastic Welding Kit with Case and UV-LED light for Hardening

How many times has glue let us down? Fingers stuck together, broken toys that we just can't fix, having to throw out our stuff because gluing it only made it worse. Not to mention just when we need glue most we discover our 3-month-old bottle is as dry as the Sahara Desert on a hot day. Bondic* is the only product that works where glue fails. It's liquid plastic that only hardens when you need it to. YES it stays liquid and won't dry out like those crazy glues on the market today. Bondic* is a very simple 4-step process (clean, fill, cure and shape) to fix almost anything, saving countless precious items from ending up in the trash before their time. This incredible adhesive is a 100% waterproof and heat resistant tool. A solvent free formula stays liquid until cured with the included UV LED Light. The Bondic* solution dries clear and creates a permanent bond. Bond, build, fix and fill virtually anything in seconds. Bondic* works on: plastic, wood, metal, PVC, steel, rubber, wiring, ceramic, figurines, vinyl, Kevlar, polypropylene, leather and so much more.





	Cat.	Qty 1+
Includes UV LED	NA1530	\$49.90

JB Weld SteelStik™ Epoxy Putty

SteelStik™ sets in 3-5 minutes and after 60 minutes, can be drilled, tapped, machined, ground, filed and painted. SteelStik™ cures to a dark grey colour, is rated at a tensile strength of 900PSI and will withstand temperatures up to 148°C. Drinking water safe.

Applications include:

- Automotive & Machine Parts
- Exhaust Systems
- Plumbing
- Stripped Threads
 Pust Damage
- Rust DamageHousehold Repairs
- sirs SteelStik Steel Stik

• Fuel Tanks

• 57g (2oz)

	Cat.	Qty 1+	Qty 4+	Qty 10+
57a	NA1519	\$20.90	\$18.90	\$16.90

Threadlocker Compound - 10ml

Use it to lock and seal threaded fasteners to prevent loosening on vibrating parts such as pumps, motor mounting bolts, gearboxes, etc. Tolerant of oil and other contaminants, it also protects threads from rust and corrosion.

- Ideally suited for fasteners between 6 and 20 mm
- Cures reliably even on stainless steel



	Cat.	Qty 1+	Qty 4+	Qty 10+
10ml	NA1528	\$16.90	\$14.90	\$13.90

J-B Weld Epoxy

Use it as adhesive, plug filler, sealant or electrical insulator. Like metal, it can be formed, drilled, ground, tapped, machined, filled, sanded and painted. It has an open time of about 30 minutes sets in 4-6 hours, and cures fully in 15-24 hours. It's waterproof, petroleum, chemical, and acid-resistant; resists shock, vibration and temperature variations. Bonds almost any combination of iron, steel, copper, aluminium, brass, bronze, pewter, porcelain, ceramic, marble, glass, PVC & ABS, concrete, fibreglass, wood, fabric - just about any porous / non-porous material.

- Mechanical properties (kPa):
 Tensile strength: 27300
 Adhesion: 12400
 Tensile Lap Shear: 7170
- Shrinkage: 0%
- Heat resistance: 260°C



	Cat.	Qty 1+	Qty 4+	Qty 10+
25ml	NA1518	\$19.90	\$17.90	\$15.90

3 Second Super Glue

Ideal for plastics, wood, rubber, glass, metal and ceramics. It sticks in seconds and needs no clamping.

Supplied in a small tube of 3g

	Cat.	Qty 1+	Qty 4+	Qty 10+	
3a	NA1500	\$2.60	\$2.30	\$2.05	

Liquid Electrical Tape/ThreadLocker

This liquid can be used instead of insulation tape. Simply brush it on and it will insulate and seal out moisture. Once dry, it is acid & salt resistant and won't crack, peel or harden even under extreme conditions. This is a very versatile product and can be used for such diverse applications as stopping screws from vibrating loose or ropes unravelling. Available in two colours.



	SIZE	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	118ml Can	NM2832	\$36.90	\$33.20	\$29.50
Red	118ml Can	NM2834	\$36.90	\$33.20	\$29.50
Black	28g Tube	NM2836	\$22.90	\$20.90	\$17.90
Red	28g Tube	NM2838	\$22.90	\$20.90	\$17.90



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join now!

SCREWDRIVERS

High Quality Jeweller's Screwdrivers

Each screwdriver has a rotating top, larger handle and a strong chrome vanadium tip providing a comfortable finger/palm rest and an easily turned body. These look very similar to those expensive German ones.



Туре	Cat.	Qty 1+	Qty 3+	Qty 6+
1.0mm Slot Tip	TD2060	\$4.60	\$4.10	\$3.65
1.5mm Slot Tip	TD2061	\$4.60	\$4.10	\$3.65
2.0mm Slot Tip	TD2062	\$4.60	\$4.10	\$3.65
#000 Phillips	TD2064	\$4.60	\$4.10	\$3.65
#00 Phillips	TD2065	\$4.60	\$4.10	\$3.65

Jeweller's Screwdriver Set

All metal precision screwdrivers for watchmakers, jewellers, modelmaking or just fixing the sunnies. Set of six.

• Slotted: 1.0, 1.2 & 1.6mm Phillips: #00, #0 & #1



Cat.	Qty 1+	Qty 3+	Qty 6+
TD2023	\$11.90	\$10.70	\$9.50

6 Piece Insulated Electronic Screwdriver Set

These screwdrivers have ergonomic handles with excellent non-slip grips. The shafts are fully insulated and rated for 1000V. The set contains all the smaller size you need for working on electronic gear. Storage case included.

• Slotted: 2mm, 2.5mm, 3mm

• Phillips: #00, #0, #1

• 1000V rated

TÜV and GS approved

• Case: 192(L) x 130(W) x 26(H)mm

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Cat.	Qty 1+	Qty 3+	Qty 6+
TD2026	\$34.90	\$30.90	\$27.90

TOOL & WORKBENCH ACCESSORIES

Tool Magnetiser / Demagnetiser

Magnetised screwdrivers make life easier. This tool has two slots, one which will magnetise and the other to demagnetise. The holes are large enough for the largest of screwdrivers.

• 50(W) x 50(L) x 30(H)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
TD2042	\$9.90	\$8.90	\$7.90

Handy Magnet Strip

You'll find dozens of uses for this innovative magnetic storage system. It can be attached to walls, tables or other surfaces to hold tools, brushes, scissors, key rings or any other object that contains iron.

Tools not included

•		()
Oty 1+	Oty 6+	Oty 20+

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	Cat.	Qty 1+	Qty 6+	Qty 20+
	LM1624	\$24.90	\$22.40	\$19.90

Magnetic Project Work Mat

Holds small metal screws, nuts, and bolts so they don't roll off the desk as you work. No more hunting around for that small screw that fell on the floor as you work.

Dimensions: 254(L) x 203(W)mm



Cat.	Qty 1+	Qty 6+	Qty 20+
TH1867	\$16.90	\$14.90	\$13.90

Electrical Screwdrivers:

This range of trade quality insulated screwdrivers is one of the most comfortable screwdrivers we have ever used. The ergonomic handles have a soft rubber coating for a secure, comfortable grip that you can use for hours on end. All are TÜV and GS approved and rated up to 1kV.

• A size for any application

Slotted



Width	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
2.5mm	75mm	TD2230	\$6.90	\$6.20	\$5.50
3.0mm	100mm	TD2231	\$7.90	\$7.10	\$6.30
5.5mm	125mm	TD2232	\$8.90	\$8.00	\$7.10
6.5mm	150mm	TD2233	\$9.90	\$8.90	\$7.90
8.0mm	175mm	TD2234	\$12.90	\$11.60	\$10.30

Phillips



Size	Length	Cat.	Qty 1+	Qty 3+	Qty 6+	
0	60mm	TD2235	\$7.90	\$7.10	\$6.30	
1	80mm	TD2236	\$8.90	\$8.00	\$7.10	
2	100mm	TD2237	\$9.90	\$8.90	\$7.90	

7 Piece Set

A quality set of 7 screwdrivers with storage box. GS & VDE tested & approved to 1000V. With red handles and insulation right to the

• DIN EN 60900.

Flat:

1.2x6.5x150, 1.0x5.5x125, 0.8x4x100, 0.4x2.5x75

Phillips:

#2x100, #1x80, #0x75



	Cat.	Qty 1+	Qty 3+	Qty 6+
7 Piece	TD2022	\$46.90	\$41.90	\$36.90

TEST SCREWDRIVERS

"Smart" Test Screwdriver

- Capacitor check
- Diode check
- Transistor check
- Globe / relay / fuse / speaker / resistor check
- Locating broken wire
- Picks up static radiation of TV or monitor
- Instantaneously checks AC power
- Earth disconnection check
- AC voltages
- DC voltage test up to 250VDC
 Continuity check
- Polarity check 1.5V to 36VDC
- Supplied with comprehensive instructions

		0	COMP.	
Cat.	Qty 1+	Qty 3+	Qty 6+	
TD2055	\$15.90	\$14.30	\$12.70	

Low Voltage Circuit Tester 6, 12, 24 Volts

Looks like a neon test screwdriver but instead of a blade on the end this tester has a probe and a 28" lead which clips to

• Suitable for 6/12/24 volts for use on cars, trucks, boats, etc.



PLIERS & CUTTERS

SIDE CUTTERS

127mm - Precision Angled **Side Cutters**

Precision side cutters that are ideal for fine PCB work. They will easily cut leads flush with the board's surface.



	Cat.	Qty 1+	Qty 3+	Qty 6+
127mm	TH1897	\$16.90	\$14.90	\$13.90

115mm - Stainless Steel **Side Cutters**





	Cat.	Qty 1+	Qty 3+	Qty 6+
115mm	TH1890	\$16.90	\$14.90	\$13.30

110mm - Fujiya* Side Cutters

Beautifully engineered, perfect for cutting super fine wire as well as general workshop use. They aren't just good to look at, they are tough as well and can cut steel wire up to 1.6mm without harm. The insulated handles are



hardness: Rockwell C Scale 57~61 • Soft grip handle

	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm	TH2332	\$39.90	\$35.90	\$31.90

150mm - Precision Side Cutters

These cutters are made from the same high carbon steel as our TH1885 long nose pliers and are designed for sharp cutting in precision wiring. They have insulated soft-touch handles and a coil return spring for fatiguefree use



	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	TH1891	\$52.90	\$46.90	\$41.90

135mm - ESD Safe Side Cutters



	Cat.	Qty 1 +	Qty 3+	Qty 6+
135mm	TH1922	\$39.90	\$35.90	\$31.90

LONG NOSE PLIERS

150mm - Precision **Long Nose Pliers**

Precision, slim line long nose pliers that are ideal for working in confined areas. They have serrated jaws so you can get a firm grip on the item you're holding. The pliers are made from quality tool steel and have soft padded handles that are spring loaded



\$16.90

\$14.90

TH1887 145mm - Stainless Steel **Long Nose Pliers**

The partner to our TH1890 stainless steel cutters. These have half round smooth gripping jaws perfect for adjusting and bending components, picking up that dropped nut, etc. Comfortable soft plastic handles which are

spring loaded.

150mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
145mm	TH1893	\$16.90	\$14.90	\$13.30

110mm - Fujiya Precision **Long Nose Pliers**

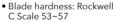
These are the perfect companion for our TH2332 precision side cutters and are made to the same exacting Specifications. The insulated handles are spring loaded for

effortless

MADEIN

FUJIYA'

MADE IN



• Soft grip handle

	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm	TH2334	\$39.90	\$35.90	\$31.90

125mm - Precision **Long Nose Pliers**

These quality pliers are made in Japan from the same high carbon steel that is used to make professional chef's knives. The pliers feature serrated jaws and a box joint to provide a precise action and strong grip. The coil spring ensures smooth, fatigue-free use.

Insulated soft touch handles



Qty 1+ Qty 3+ Qty 6+ 125mm TH1885 \$33.40 \$41 90 \$37.90

To avoid confusion we have put a small logo "SS" nominating which tool is made out of stainless, and 'CS" meaning carbon steel.

CUTTERS & PLIERS SET

Stainless Cutter / Pliers Set

Set of five 115mm cutters and pliers for electronics, hobbies, beading or other crafts. Stainless steel with soft ergonomic grips.

Contents

\$13.90

CS

MADE IN

FUJIYA'

MADE IN

- Flush cutters
- Long nose pliers
- Flat nose pliers • Bent nose pliers





Cat.	Qty 1+	Qty 3+	Qty 6+
TH1812	\$39.90	\$35.90	\$31.90

WHEN STAINLESS STEEL IS NOT THE BEST!

We are big fans of stainless steel. We love it in tools, fasteners & many building products. It is not, however, always the best material. Top chefs will tell you, for example, that the best knives are not stainless, they are made out of carbon

Why? Carbon steel is far harder & tougher than stainless. The problem, of course, is that carbon steel will rust if not maintained.

In our search for the best hand-tools, we have decided to stock two very high quality Japanese-made products made out of carbon-steel. They are not cheap but they are for the professional user whose time is money.

Like carbon steel knives, rust is not a problem if used constantly.

They will, however, pay you back every day because they will stand up to heavy wear & tear.

For those who have only occasional use for hand tools, we sincerely recommend stainless steel products.

Are you in the trade?

For professionals engaged in electronics & construction-related industries.





PLIERS & CUTTERS



This drop forged alloy tool is made to the same standards as our TH1984 combination pliers. It is just as tough and will also cut piano wire up to 1.6mm. This is a quality tool and designed for dedicated wire cutting.
It has comfortable double inset handles

Qty 1+

\$29.90

Qty 3+

\$26.90

• 155mm / 6" long

TH1985

165mm (6.5") Long Nose Pliers -

You can see the quality German design in these strong and attractive pliers. They are drop forged to the same standards as the other tools in the range and have the same cutting capacity - up to 4.0mm electrical wire. A very attractive tool with comfortable handles. The high quality manufacture means they can take the work and last for ages. This could be the last pair of long nose general purpose pliers you need to buy!

Qty 1+

\$29.90

FUJIYA

• 165mm / 6.5" long TH1986

Insulated

180mm (7") Bull Nose Pliers -Insulated



Strong, Tough & Reliable. These high quality drop forged alloy steel pliers are a professional tool and manufactured to the rigid German DIN standards for electrical safety & mechanical strength. They are for serious tradesmen who need a quality tool. These pliers will cut hard (piano wire) wire up to 1.6mm & soft (annealed copper, aluminium silver etc,) up to 4.0mm. Non slip double inset handles are comfortable to hold.

• 180mm / 7" long

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1984	\$29.90	\$26.90	\$23.90

SPECIALTY PLIERS

180mm (7") - Screw Removing Pliers

This tool is basically designed to remove, by brute force, a hopelessly stripped out head of any type of small non-countersunk screw. The secret is an oval-shaped serrated hole in the end of the plier. You place the plier over the head of the screw, grip and rotate the plier. This system applies a lot more torque to the head of the screw than a drill bit ever could. It's reminiscent of the plier that a dentist used to extract your tooth!! Its Japanese manufacturer has provided a beautifully made and finished product. Suitable for any screw in the range of 2.0 to 5.0mm or so, although it will work on larger screws to lesser effect MADE IN

\$23.90







75mm (3") Sheet Metal Bending Pliers

Bend sheet metal easily with this heavy duty offset hand tool. Features strengthened rivets and dual layered pitted handle for a firm grip.

\$23.90

• Jaw width: 75mm

Qty 3+

\$26.90

- Jaw depth: 30mmOverall length: 210mm
- Thin gauge aluminium, brass, etc.

Not suitable for steel over 0.8mm thick.



Cat.	Qty 1+	Qty 3+	Qty 6+
TH2336	\$34.90	\$30.90	\$27.90

TWEEZERS

Anti-Magnetic Precision Tweezers

These are high quality tweezers made from anti-magnetic, anti acid steel. Perfect for handling SMD components, jewels or general electronic components

- Length 110mm
- Supplied with protective nylon cap

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1754	\$5.90	\$5.30	\$4.80

ESD Safe Tweezers with LED Illumination

These precision tip tweezers are ideal for picking up tiny objects with the added benefit of a LED light to illuminate the item being handled. Ideal for working with SMD components or jewels they are ESD (Electronic Discharge) safe and have teeth on the tip to

ensure reliable arip on items.

- Includes 3 x SR41 batteries

 Dimensions: 	155(L) x	15(W) x
10(H)mm		

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1761	\$12.90	\$11.30	\$10.30

Stainless Steel Tweezer Set

A set of 4 tweezers, three supplied with vinyl handles, comprising:

- 1 x self closing pointed type
- 1 x long curved pointed 1 x long fine pointed 1 x flat spatula type

Approximate length 115mm.



Stainless Steel Tweezer Set - ESD Safe

A set of 3; duckbill head, angled fine and straight superfine enable you to manipulate surface mount components or other tiny items with ease. ESD coating on main body of tweezers greatly reduces static discharge issues

• Measures: Angled & duckbill 120mm,

superiire 155iiiiii				WARRAN		
	Cat.	Qty 1+	Qty 3+	Qty 6+		
	TH1760	\$24.90	\$22.40	\$19.90		

OTHER TOOLS

Inspection Mirror

Low cost inspection mirror. Ideal for looking into hard to get places

- Length: 160mm
- Mirror dia: 24mm



Forceps (Haemostats)

These clamps are made of stainless steel and can be locked on to the item they are holding. They are 130mm long, so they are ideal to reach into hard-to-get-at places. Also great for holding components etc., whilst soldering.



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1755	\$15.90	\$13.90	\$12.90

A36 Freecall order hotline: 0800 452 922 jaycar.co.nz

TOOL KITS & CRIMPERS

SMARTPHONE & GAME CONSOLE TOOLS

LCD Screen Opening Tool

If you're trying to open modern smart devices such as a Tablet or Smartphone, the right tool is essential. This pair of suction-pliers provides pressure to pop open the case, allowing you to get access to the internal electronics

and screen. Suitable for screen removal on many smart devices. • Dimensions: 160mm long

Smartphone not included

Cat.	Qty 1+	Qty 3+	Q ty 6+
TD2121	\$10.90	\$9.90	\$8.90

Opener Tool for Curved Screens Devices

Use this flexible 0.1mm blade to help dissasemble curved screens on Smartphones, Tablets, laptops and other similar displays.



Cat.	Qty 1+	Qty 3+	Qty 6+
TD2138	\$10.90	\$9.90	\$8.90

Tool Set Repair Kit for iPhone

The tools you need to safely open up your iPhone* or iPad* and put it back together again. Replace cracked screens, dead batteries, scratched back panels and more. Suits iPhone® 3G, 3GS, 4, 4s, 5.

- 3 x iPhone* mounting panels with screw hole marks for iPhone* 4/4s/5
- 1 x Scraping plastic film
 1 x Special tool for capacitive screens
- 1 x 0.8 Pentalobe screwdriver (for iPhone® 4/4s/5)
- 1 x 1.2 Pentalobe screwdriver (for iPad*)
 1 x 1.2 Phillips screwdriver (for iPhone* 3, and parts of iPhone* 4)
- 2 x Guitar pick opening tool

2 x Flastic prying tools				
	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2115	\$21.90	\$19.90	\$17.90

27 Piece Smartphone Repair Kit

A kit containing all the necessary tools you need to fix your Smartphone. This 27 piece Smartphone repair tool kit comes in a compact storage case with a hang tab to make sure that you don't misplace the kit after use. It is not limited to Smartphones either - it is designed to repair iMac*, Mac* air, iPhone*, Samsung*, HTC*, Nokia*, Sony* and many other brands of mobile phone.

Kit includes:

- Aluminium alloy handle
- 18pcs for 4mm bits: PH000, PH00, PH0, PH1, SL1.5, SL2.0, SL2.5 -Torx: T4, T5, T6, T8, T10
- -HEX1.5, HEX2.0
- -Pentalobe 0.8, 1.2, 1.5 -Tri-Lobe #0
- 2 x Plastic prying tools
- Extension bar
- Guitar pick opening tool
- Suction vacuum opener
- SIM card ejector pin tool



- 2 x Tweezers
- Soldering scraper tool
 Nylon ESD-safe probe with pointed and blade ends
- Case: 190(L) x 130(W) x 26(D)mm

(Cat.	Qty 1+	Qty 3+	Q ty 6+
1	TD2118	\$36.90	\$32.90	\$28.90



YOYRS OF QUALITY HAND TOOLS

Gaming Console Tool Kit

Everything you need to get into your console and accessories. It includes tools for pretty much every console and handheld on the market today - Nintendo®, Xbox®, Playstation®

Carry case included.

- Contents:
 PH000, PH00, PH0, PH1
- Slotted 2, 3, 4mm T4, T5, T6, T8, T10, T15, T20 TA2, TA2.3

- TRI00, TRI0, TRI1
 Nintendo* & Xbox* security bits
- Xbox[®] opening tool
- Stainless tweezers • Ratchet handle and adaptor



Cat.	Qty 1+	Qty 3+	Qty 6+
TD2109	\$39.90	\$35.90	\$31.90

TOOL KITS

35 Piece Electronic Tool Kit with Vinyl Case

A multi-purpose precision screwdrivers tool set with a durable storage case with zipper. The tool set consist of 30 bits, cutters, pliers and a flexible shaft

adaptor for those tricky to reach screws, tweezers and screwdriver handle. Ideal for electronic service tradesmen and

Kit includes:

30 pcs assorted bits: Slotted:

- SL1.0, SL1.5, SL2.0, SL2.5, SL3.0, SL3.5, SL4.0mm
- Phillips: PH000, PH00, PH0, PH1
- Pozi: PZ0, PZ1
 Torx: T4, T5, T6, T7, T8, T9, T10, T15, T20
 Hex: H0.7, H0.9, H1.3, H1.5, H2.0,
- H2.5, H3.0, H4.0mm
- Needle nose pliers, diagonal cutters, flexible shaft, stainless tweezers, easy grip screwdriver handle
- Durable zippered storage case
- Case dimensions: 180(L) x 125(W) x 30(D)mm



CRIMPING TOOLS - QUICK CONNECTORS

5 Way Crimping Tool - Auto Type

This crimping tool will do the following:

- Strip wire with diameters 0.75, 1.0, 1.5, 2.5, 4.0 & 6.0mm
- Cut bolts with diameter M2.6, M3.0, M3.5, M4.0 & M5.0
- Cut wire
- Crimp insulated & non insulated terminals



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1828	\$11.90	\$10.90	\$9.90

Automotive Crimp Tool with Connectors

Unlike other automotive crimp pliers, this excellent tool comes with 80 of the most popular automotive connectors and NOT a bunch of junk you will never use. The tool will cut & strip wire, crimp connectors and also cut a range of metric bolts. Every car enthusiast should have one of these

Included connectors:

- 8 x male & 8 x female blue bullets
- 8 x male & 8 x female red bullets
- 8 x male & 8 x female blue spades
- 8 x male & 8 x female red spades
- 8 x red eye connectors8 x blue butt joiners



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1848	\$20.90	\$18.90	\$16.90

CRIMPING TOOLS - QUICK CONNECTORS CONTINUED

Crimping Tool for Non-Insulated Lugs

A quality tool at a budget price. Solid box joint and crimping dies, comfortable handles and spring-loading make this an easy crimper to use all day. It handles non-insulated lugs from 14-18 AWG and 22-26 AWG and also includes a built-in wire cutter.



\$42.90

\$38.40

	Cat.	Qty 1+	Qty 3+	Qty 6+
185mm long	TH1834	\$19.90	\$17.90	\$15.90

Heavy Duty Ratchet Crimp Tool for Insulated Terminals

Manufactured from quality carbon steel and fitted with hardened and tempered jaws. Crimping pressure is precisely adjustable and a ratchet release lever is fitted to enhance safety. Has easy identification for crimping Red, Blue, and Yellow terminals. Suitable for crimping insulated terminals from 0.5 mm to 6.0 mm in size.



\$47.90

Ratchet Crimping Tool for Non-Insulated Lugs

220mm long

Very high quality with comfortable grip and ratchet mechanism to relieve strain on your hands. Ideal for anyone doing frequent or high volume crimping. The ratchet mechanism holds the crimper closed until complete, with a manual release when needed. The extra-long handle provides exceptional leverage, while the grips provide comfort for your hands. Suits (16AWG to 6AWG) 1.25 to 16mm non-insulated terminals. Ideal for crimping Anderson* plugs up to 50A.

TH1829

• Dimensions: 280(L) x 55(W) x 18(D)mm (Closed)



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1847	\$46.90	\$41.90	\$36.90

CRIMPING TOOLS - COAX

Compression Crimping Tool - Universal

A precision crimp tool ensuring correct crimping pressure is applied for reliable, trouble-free compression of BNC, RCA, Min-F and F-type coaxial connectors. Adjustable compression depth that provides desired crimping length.

Works with RG59 and RG6 coaxial cables

Note: This tool is not suitable for our PP0708 Foxtel Approved F59 Plug.

	Cat.	Qty 1+	Qty 3+	Qty 6+
146mm long	TH1800	\$28.90	\$25.90	\$22.90

Compression Crimping Tool for F-Type Plugs

A compact compression tool designed for our Foxtel approved F-type plug (PP0708). A channel accurately positions the plug, and a spring-loaded clamp holds the cable in position. These features and leverage action of the handle ensure easy F-type



Compression Crimp Tool for RCA / BNC / PAL / F-Type

This crimp tool provides interchangeable dies to crimp RCA, BNC, PAL and F-Type connectors with ease. It's a durable tool that will provide a quality compression connection every time. Metal construction with comfortable grip.



	Cat.	Qty 1+	Qty 3+	Qty 6+
152mm long	TH1807	\$28.90	\$25.90	\$22.90

Heavy Duty Coax Crimping Tool

This tool is specifically designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto coax cable for TV and communications applications. It also has adjustable crimp force and 3 hex dies: 2.54mm.



Cat.	Qty 1+	Qty 3+	Qty 6+	
TH1832	\$39.90	\$35.90	\$31.90	

Hex Ratchet Crimping Tool

9.12mm & 10.3mm

Heavy duty ratchet tool designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto RG6, RG58 or RG59 coax cable. It features adjustable crimping force and ratchet mechanism for complete repeatability. Four hex crimping dies: 1.72mm, 5.49mm, 8.23mm and 9.14mm.



Ratchet Crimping Tool for F-Type Connectors

A strong, heavy duty tool for crimping F-Type CATV connectors onto RG6 or RG59 coax cable. Ideal for cable TV or RF distributions system installers. The tool features a secure ratchet mechanism for accurate and reliable crimps.



Ratchet Crimping Tool for BNC/TNC Connectors

A heavy duty tool for crimping BNC/TNC 0 connectors onto RG58/59/62 coax cable. The tool features a secure ratchet mechanism for accurate and reliable crimps.



Heavy Duty Terminal Crimper

Commonly used for crimping lug/eye terminals onto heavy gauge power cables. The lever arm action makes for a good solid hex crimp on the terminal. Features a built in rotating die which can be rotated to suit terminals for 6/10/16/25/35/50mm² cable (10AWG-1/0AWG)

- Suits our PT4934 to PT4939 range of eye terminals
- 450mm long



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1849	\$64.90	\$57.90	\$51.90



CRIMPING & TERMINATION TOOLS

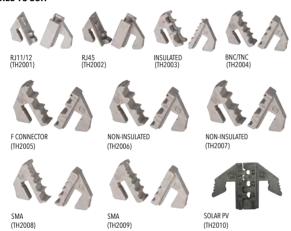
CRIMPING TOOLS - MODULAR

Heavy Duty Crimp Tool

This heavy duty, ergonomic crimper allows you to exchange the dies quickly and easily by hand, without the need for a screwdriver! Crimping is made easy with its ratchet mechanism designed for maximum power or quick release. Its ratchet release function allows for easy adjustment to incorrectly placed terminals prior to completing the crimp. The interchangeable dies are available separately so you can buy only the ones you require for each job! An invaluable tool for the workshop or technician's toolkit.



DIES TO SUIT







(=)					
	Cat.	Qty 1+	Qty 3+	Qty 6+	
Heavy Duty Crimp Tool	TH2000	\$45.90	\$40.90	\$35.90	
6P6C RJ11/12	TH2001	\$25.90	\$22.90	\$20.90	
8P8C RJ45	TH2002	\$25.90	\$22.90	\$20.90	
Insulated Terminals	TH2003	\$25.90	\$22.90	\$20.90	
BNC.TNC RG58/59/62	TH2004	\$25.90	\$22.90	\$20.90	
F Connectors CATV RG6/59	TH2005	\$25.90	\$22.90	\$20.90	
Non-Insulated Terminals 26-18AWG	TH2006	\$25.90	\$22.90	\$20.90	
Non-Insulated Terminals 20-10AWG	TH2007	\$25.90	\$22.90	\$20.90	
SMA/Fibre Optic 1.09-6.48mm	TH2008	\$25.90	\$22.90	\$20.90	
SMA/Fibre Optic 1.07-4.52mm	TH2009	\$25.90	\$22.90	\$20.90	
PV Connector	TH2010	\$36.90	\$33.20	\$29.50	
Deutsch Die AWG 16/18/20	TH2011	\$28.90	\$25.90	\$22.90	

6P/8P Modular Crimp Tool

This tool will crimp the following plugs: 6P2C, 6P4C - RJ12, 6P6C - RJ12, 8P - R.

• It also cuts and strips the cable



\$26.90

4P/6P/8P/10P Modular Crimp Tool

This great tool will cut, strip and crimp flat telephone cable, or Cat5e type cable also. Constructed from high quality carbon steel, it features interchangeable dies and ergonomic design. It also has a brace to lock them closed.



\$23.90

\$21.90

to lock them closed.				K 100-
	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1936	\$64.90	\$57.90	\$51.90

TH1935

CATS TOOLS

Cat5 Punch-Down Tool / Stripper

LOW-COST

This versatile little tool will strip wire up to 5 to 6.2mm diameter, and doubles as a punch-down tool for 110/88-type terminals, with blade. Made from poly-resin plastic with steel

cutters, this lightweight tool could easily fit in the pocket or tool kit.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1738	\$10.90	\$9.50	\$8.50

Cat5 Punch-Down Tool - Adjustable

It has a turnable body, adjustable impact pressure and a storage compartment within the handle for holding a spare blade. Frame made of polyacetal resin with fibreglass orange handle. Supplied with 88 blade. Spare blades see TH1743 below.

Specifications	TH1740					
Impact pressure	Low: 10 +/- 2kg (standa	Low: 10 +/- 2kg (standard wire)				
High	15 +/- 2kg (larger wire)		A BUILDING			
Length of tool	152mm	•				
			1			
	Cat.	Qty 1+	Qty 3+	Qty 6+		
	TH1740	\$29.90	\$26.90	\$23.90		

Blades for Cat5 Punch Tools

Suits the punch tool - TH1740. Made from hardened SNCM-21, these blades are both changeable and reversible, and can be changed by hand, no screwdriver necessary. Blade retaining pressure within 4-6 kg. One end of each blade has a cutter for that extra-

neat termination, the other end is plain for those "linked" blocks.

	Cat.	Qty 1+	Qty 3+	Qty 6+	
110 Krone	TH1743	\$21.90	\$19.70	\$17.30	

F CONNECTOR TOOLS

F Connector Seating Tool

This 3 way tool assists in the connection of F type connectors. Includes flaring tool for RG6 and RG59 cable and pre-threading tool. Measures: 60mm diameter



Product Data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!



F-Type / BNC Insertion & Extraction Tool

If you've ever tried to unscrew an F-Type or BNC connector that's been in-place for a while, you know it can be really tough. Sure a spanner might help, but access is usually an issue too. This tool is specifically designed to allow you to insert them with firm torque for a quality connection, and a solid grip to unscrew the most stubborn plug too. Suits F-Type and BNC connectors.



ldeal for the back of a cramped equipment cabinet.					
Specifications	TD2000			1 Vran	
Thread / Socket 3/8-32 / 7/16 Hex				TEAR	
Dimensions	255(L) x 25	255(L) x 25(Dia.)mm			
	Cat.	Qty 1+	Qty 3+	Qty 6+	
	TD2000	\$16.90	\$14.90	\$13.40	



SHEARS & NIBBLING TOOL

180mm (7") High Quality Stainless Steel Electrical Shears

These precision spring loaded stainless steel electrical shears will cut soft wire up to 22mm² and make light work of cable ties, heatshrink, light hook-up wire and cable braid etc. Thumb operated lock to keep them closed when

 Ideal for cutting ribbon cable

180mm long



140mm (5.5") High Quality Electrical Shears

These shears offer impressive cutting ability with finely honed and serrated blades. Great for cutting insulation, heatshrink, spaghetti and light duty hook-up wire.

• Shears feature insulated handles



165mm (6.5") Stainless Steel Cable Shears

This set of cutters has a cutting capability of up to 10mm copper cable. It is constructed from stainless steel and has a hardened long-life cutting edge. For safety and ease of storage, it can be locked in the closed position.

- Stainless Steel & lightweight
- Lockable



	WARRANTT				
		Cat.	Qty 1+	Qty 3+	Qty 6+
165mm long		TH1898	\$26.90	\$23.90	\$21.90

300mm (12") Copper Cable Shears

These super heavy duty cutters feature a precision cutting head forged from carbon steel attached to drop forged steel handles for extra leverage. Designed to cut copper cable up to 35mm² you can slice through just about any cable up to 2 gauge. The handles are coated to prevent corrosion and have rubber grips for operator



WARRANTY



Multi Function Cutter/Stripper Tool

This ingenious 2-in-1 tool is the ultimate in space economy for your toolbox. On the one hand, it is a 6 position wire stripper suitable for 10 AWG to 20AWG insulated wire with a micro-grip jaw at the end. Then, just flip the handles around to turn it into a side cutter and crimper!





	Cat.	Qty 1+	Qty 3+	Qty 6+
160mm long	TH1843	\$31.90	\$27.90	\$24.90

Nibbling Tool

Will cut any shape out of aluminium, plastic, copper and other unhardened metals up to 18 gauge. Tool is designed to fit into the palm of your hand for easy use, simply drill a 1/4" hole to start.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1768	\$18.90	\$16.70	\$14.70

CABLE STRIPPERS & CUTTERS

Heavy Duty Wire Stripper / Cutter / Crimper with Wire Guide

Designed for easy wire stripping. The alloy steel can strip all types of cable from AWG 10-24 gauge (0.13 -6.0mm), and the wire guide ensures the correct length is stripped time and time again. It incorporates a precision cutting blade for easy wire cutting. It also features quality crimping jaws. Capable of removing outer insulation from main T & E cable.

- Insulated terminals (1.5 6mm)
- Non-insulated terminals (1.5 6mm)
- For auto ignition terminals (7-8mm)

Spring return



Stainless Steel Wire Stripper / Cutter / Pliers

A high quality precision wire stripper and cutter that will strip wire sizes from 0.6mm to 2.6mm. It is spring-loaded with locking jaws, and has soft rubber handles for added comfort.

- Strips stranded wire from 12-24 AWG and solid wire from 10-22 AWG
- Includes wire cutter, pliers and loop hole to bend hooks in wires
- Will also cut steel wires up to 3.0mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
164mm long	TH1841	\$22.90	\$20.90	\$17.90

Wire Stripper

Great way to strip all sorts of cable without damaging the conductors. Automatically adjusts to insulation diameter.

- 5

Spring return Spring return Slour may vary to one shown.			3		
	Cat.	Qty 1+	Qty 3+	Qty 6+	
	TH1824	\$21.90	\$19.90	\$17.90	

Budget Coax Cable Stripper

Strips insulation from any coax cable and ideal if you only need to strip coax occasionally. Simply insert the cable, twist and turn, then

use the other end of the tool to remove the inner insulation.



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1815	\$5.90	\$5.20	\$4.70

Pocket Wire Stripper

Strips anything from 2G to RG6 coax. Easy to use and small enough to take anywhere on the job.



	Cat.	Qty 1+	Qty 3+	Qty 6+
120mm long	TH1817	\$20.90	\$18.90	\$16.90

Rotary Coax Stripper

This handy stripper will strip the outside jacket and inner conductor in one operation.

- Suitable for RG58/59/62/6 and 3C2V 75 ohm cable
- Simply rotate the stripper clockwise around the cable 3 to 6 times. A quality stripper suited to installers





ENGRAVING TOOLS & ANTI-STATIC

ROTARY TOOLS & ENGRAVERS

Micro Engraver

Engrave your valuables for security or insurance. The tiny diamond coated tip spins at 10,000 RPM so you can personalise tools, sporting gear, toys, security ID on valuables etc. Engraves glass, ceramics, metals and plastics. Batteries and case included.

- Tip is replaceable
- Dimensions: 160(L) x 15(Dia)mm
- Replacement tip sold separately CatTD2469



	Cat.	Qty 1+	Qty 3+	Qty 6+
Micro Engraver	TD2468	\$34.90	\$30.90	\$27.90
Spare Tip	TD2469	\$8.90	\$7.90	\$6.70

192 Piece Rotary Tool Bit Set

This 192 piece rotary accessory kit comes with a wide variety of components for sanding, engraving, cutting, grinding, and polishing. All parts store neatly in the compact carrying case. This kit is designed to be used with rotary kits that use 3.2mm and 4.8mm diameter shanks.



Includes:

- 1 x Wrench
- 16 x Sanding Bands 1 x Rubber Emery Wheel
- 1 x Felt Wheels
- 4 x Felt Wheels
- 4 x Felt Wheels
 12 x Grinding Wheels
 2 x Cut Off Wheels Fiberglass
 1 x Flap Wheel
 1 x Felt Wheel Pointed

- 3 x Collets
- 5 x Grinding Wheels With shank
- 2 x Sanding Shanks
- 2 x Mandrels For Wheel
- 1 x Mandrels For Felt Wheels
- 5 x Diamond Cutters
- 1 x HSS Cutter
- 6 x Brush
- 1 x Polishing Compound 66 x Cut Off Wheels
- 60 x Sand Papers
- 1 x Dressing Stone

	Cat.	Qty 1+	Qty 3+	Qty 6+
192 Piece	TD2455	\$22.90	\$20.90	\$17.90

110 Piece 12V Rotary Tool Set

Drill, saw, sand, polish, carve or grind in your workshop or out on the road. 110+ bits and attachments cover every possible task you'll ever need. The rotary tool is rated for 12V at 12,000 RPM. Ideal for hobby or professional use.





Rotary tool: 12VDC, 16W, 12,000 RPM

Attachments:

- Attachments:

 Sanding belts 3 x 6mm, 3 x 12mm

 5 x Sanding Bands: 1/4" x 1/2"

 6 x Sanding bands: 1/2" x 1/2"

 4 x Collets: 1.6mm-2.3mm-3.2x2

 1 x Dressing Stone 1"x 3/8"

 1 x Felt Wheel Pointed: 3/8" x 3/4"
- 2 x Rubber Emery Wheel4 x Felt Wheels: 1/2" x 1/4"
- 20 x Sand papers2 x Felt Wheels: 1'x1/4"
- 1 x Cloth wheel 1"x 1/8"
- 2 x sanding shanks: 1/4"x1/2", 1/2"x1/2"
 4 x HSS Twist drills: 1.6mm x 2, 2.3mm x 2
- 3 x Mandrels For Wheel
- 5 x Diamond cutters
- 2 x HSS cutter
- 9 x Grinding wheels with Shank

Qty 3+

\$41.90

Qty 6+

\$36.90

• 3 x Brush

Cat

TD2451

- 30 x cut off wheels
- 1 x Polishing compound
- 1 x mini engrave

Qty 1+

\$46.90

210 Piece Rotary Tool Kit with Flexible Shaft

Flexible shafts are particularly useful for porting heads in engines, but have a multitude of other applications where you need to get into a tight space or get more control of the bit. The kit consists of a powerful mains powered 32,000 RPM rotary tool that you can use with numerous attachments in the usual way, plus a 1m long flexible shaft. The flexible shaft attaches in seconds to give extra versatility. Suitable for model making, automotive, workshop, art, jewellery or sculpture. Attachments include: P80 sanding belts
Collets: 2 x 3/32", 2 x 1/8"

• Steel, fibre wire brushes

• Polishing wheels: 12, 25mm

- Sanding arbours
- Sanding discs
- Drill bits: 2 x 1/16", 2 x 3/32"
- 30mm cut-off wheels
- 20 x 4mm grinding wheels

Paint-removing wheel

3/8" collet spanner, arbours, shafts, polishing compound Tungsten carbide burrs: 3mm straight, ball profiles Diamond coated burrs: 4mm ball,

2mm fine cone taper, 3mm pinecone, 4mm cone Grinding stones:

11 x 8mm tapered bullet

20 x 4mm wheel

10 x 4mm wheel 15 x 10mm cylinder 12 x 10mm cylinder

20 x 10mm bullet



Specifications	TD2459						
Speed	10,000 - 32,000 RPM						
Power	135 Watts@240VAC						
Dimensions	210(L) x 52(Dia)mm	210(L) x 52(Dia)mm					
Shaft Length	1000mm						
	Cat.	Qty 1+	Qty 3+	Qty 6+			
240VAC 210 Rotary Tool Set	TD2459	\$69.90	\$62.90	\$55.90			

ANTI-STATIC PRODUCTS

Conductive Brush

This brush looks very much like a toothbrush. The handle is made from conductive plastic, and the comb from conductive nylon. Use it to clean anything where static is a problem

• Resistivity: - $10K\Omega$ - $10M\Omega$

	Cat.	Qty 1+	Qty 3+	Qty 6+
178mm long	TH1775	\$11.90	\$10.70	\$9.50

Anti-Static Wrist Strap

Static charges can destroy ICs instantly. Consists of adjustable hook and loop wrist strap, coiled lead and banana plug/alligator



	Cat.	Qty 1+	Qty 3+	Qty 6+
Expands to 1.8m long	TH1780	\$16.90	\$14.90	\$13.90

Anti-Static Wrist Strap

Colour may vary

Similar to the unit above, this strap has an extra long coiled lead of 3m/10ft extender. This makes it ideal for moving about your workbench without having to unclip yourself to do so. An elasticised wrist strap is also included, along with banana plug/ alligator clip.



Expands to 3.0m long TH1781 \$22.90 \$20.90 \$17.90

Anti-Static Field Service Mat / Bag

The mat folds out to a work area of approximately 600 x 600mm. At one end there are 2 pouches, and a ground lead and wrist strap are included. A very useful tool.

• Pouch size approx: 200 x 300mm



	Cat.	Qty 1+	Qty 3+	Qty 6+	
600 x 600mm	TH1776	\$52.90	\$46.90	\$41.90	

GLUE GUNS

Large Glue Gun - 100W

Great for quick and easy low stress repairs to timber, cardboard, paper and many household materials. It is fast, easy and simple to use with trigger controlled glue feed.

Mains powered

 Requires 11mm diameter glue sticks (2 supplied)

Note: For intermittent use only. Not for production use



GLUE STICKS FOR LARGE GUN

- Dimensions: 11mm Dia. x 100mm long
- Suits TH1999 gun

	Cat.	Qty 1+	Qty 3+	Qty 6+
Large Glue Gun - 100W	TH1999	\$24.90	\$22.40	\$19.90
Glue Sticks Pkt 6	TH1995	\$5.90	\$5.20	\$4.70
Glue Sticks Pkt 45 approx	TH1996	\$21.90	\$19.30	\$16.90

Mini Glue Gun - 30W

A glue gun is a handy tool to have around the house. It's fast, easy and simple to use with trigger controlled glue feed. Suitable for toys and models, decorations, furniture, woodwork, cardboard, etc.

- Mains powered
- Requires 7mm diameter glue sticks (2 supplied)

Note: For intermittent use only. Not for production use



GLUF STICKS FOR MINI GUN

To suit the mini glue gun.

- Dimensions: 7mm dia. x 100mm long
- Suits TH1997 mini gun

	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini Glue Gun - 30W	TH1997	\$17.90	\$16.10	\$14.30
Glue Sticks Pkt 6 for Mini Gun	TH1991	\$4.90	\$4.10	\$3.70
Glue Sticks Pkt 50 for Mini Gun	TH1994	\$11.90	\$10.70	\$9.50

10W Hot Glue Gun with Colour Print

A mini glue gun to have in the workshop, crafting area, toolbox or office. After a short warm-up time, simply squeeze the trigger to control the glue feed. A handy stand swings out to help avoid the hot end from touching the bench. Suitable for toys and models, decorations, furniture, woodwork, cardboard, etc. Mains powered and supplied with two 7mm glue sticks to get you started straight away.

Note: For intermittent use only. Not for production use.



	Cat.	Qty 1+	Qty 3+	Qty 6+
10W	TH2050	\$14.90	\$13.90	\$11.90



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LOCK PICKING

24 Piece Lock Picking Kit with Practice Padlock

Learn how to pick padlocks and challenge your mates to see who can pick the lock the quickest with this 24-piece lock picking kit with practice padlock. This handy toolkit includes 20 x stainless steel single lock picks of different sizes, 3 x Z-shaped tools to maintain constant tension on the pins, and an auto tension tool, all contained in a zip-up carry case. Instructions and a see-through practice padlock is also included to get you started.

Transparent practice padlock with 2 keys



2 Piece Cylinder Practice Locks

Combine with a lock picking kit to learn how to pick cylinder type locks. Two different style cylinder practice locks are supplied, which are see-through so you can see the internal pins and springs in action. Challenge your mates to see who can pick the locks the fastest.

TH2200



\$17.90

\$35.90

- Transparent locks
- 2 keys for each lock
- Plastic storage case for each lock



\$22.90

\$45.90

\$40.90

\$20.90

Note: These kits are intended for lawful purposes only including hobby (Locksport) or private use.

TH2202

SAFETY GLASSES

Wrap-Around Clear Safety Glasses

Lightweight, durable and comfortable fit. Completely clear design with folding arms.

Dimensions: 180(W) x 160(D) x 50(H)mm



Cat.	Qty 1+	Qty 4+	Qty 10+
TH3002	\$4.50	\$4.05	\$3.60

Safety Glasses with LED Lights

Protect your eyes and shine a light on what you're working on with these Safety Glasses with LED Lights. An LED on either side can be individually switched and swivelled for the ideal position. The arm lengths can be adjusted up to 22mm. The arms fold in for easy storage. Each LED is supplied with 2 x CR2032 button cell batteries.

Dimensions: 160(W) x 160(D) x 60(H)mm



Cat.	Qty 1+	Qty 4+	Qty 10+
TH3000	\$10.90	\$9.90	\$8.90

SCREWDRIVERS & DRIVER BITS

High Impact

S2 Steel

SPECIALTY SCREWDRIVERS

Keyring Screwdriver Set

This tiny key-size screwdriver set consists of a 5mm slotted driver, #2 Phillips driver and is small enough to be carried on your key ring, yet strong enough to loosen all but the toughest general purpose screws without damage. The drivers are made from chrome-vanadium steel and have a forged handle section that allows plenty of pressure to be applied to the job. Length 55mm.



Cat.	Qty 1+	Qty 3+	Qty 6+
TD2012	\$5.80	\$5.20	\$4.60

2-in-1 Reversible Screwdriver

A handy screwdriver to keep in your pocket so you always have one in reach as you work around the home, office, or workshop. The long, slim shaft can be reversed between Phillips or flathead.



	Cat.	Qty 1+	Qty 3+	Qty 6+
2-in-1	TD2530	\$6.90	\$6.20	\$5.50

100 Piece Driver Bit Set

The ultimate driver bit set includes:

- 1 x magnetic bit holder
- 1 x square to hex socket driver 50mm
 1 x square to hex socket driver 25mm
- 1 x square to hex bit adaptor

Driver bits:

- Phillips # 0, 1, 2 (x5) & 3
 Pozidriv™ # 0, 1, 2 (x5) & 3
 Square drive # 0, 1, 2 & 3
 Slotted 3, 4, 4.5, 5, 5.5, 6, 6.5, 7 & 8mm
 Pin drive (snake) # 4, 6, 8 & 10
- Torque Set # 6, 8 & 10 Torx T8, T10, T15, T20, T25, T27, T30, T40 & T45
- Tamper proof Torx (Metric) T8, T10, T15, T20, T25, T27 & T30 Hex (Allen) Metric 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0 & 8.0mm Tri-Wing # 1, 2, 3 & 4 Clutch drive # 1, 2 & 3

- Hex (Allen) Imperial 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 &
- Spline drive M5, M6 & M8
 Tamper Proof Allen (Metric) 2.0, 2.5, 3, 4, 5 & 6mm
- Tamper Proof Allen (Imperial) 5/32, 9/64, 1/8, 7/64, 3/32 & 5/64"
- All in a snap lock case with clear markings to show where each bit rests

Note that commonly used driver bits are supplied in greater numbers.

•		(D)(X)(
Cat.	Qty 1 +	Qty 3+	Qty 6+	
TD2020	¢24.00	¢20.00	¢27.00	

Cat.	Qty 1+	Qty 3+	Qty 6+	
TD2038	\$34.90	\$30.90	\$27.90	

DRIVERS & BIT SETS

7 Piece Hex Nut Driver Set

A useful set of hex nut drivers with deep sockets that allow a generous length of thread to protrude through the nut

you are tightening. Sizes supplied are M3, M3.5, M4, M4.5, M5, M5.5, and M6. A plastic storage pouch keeps the set together. A quality Japanese product.

Hex (Allen) Bits:

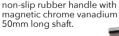
- M3 Bolt/Nut
- M3.5 Bolt/Nut M4 Bolt/Nut
- M4.5 Bolt/Nut
- M5 Bolt/Nut
- M5.5 Bolt/Nut
- M6 Bolt/Nut



Cat.	Qty 1+	Qty 3+	Qty 6+
TD2339	\$46.90	\$41.90	\$36.90

Blank Hex Driver For Individual Screw Bits

Use this driver with the bits supplied in our TD2035 bit sets. It will accept any hex bit in our range and features non-slip rubber handle with



Length	Cat.	Qty 1+	Qty 3+	Qty 6+	
160mm	TD2032	\$8.90	\$7.90	\$6.90	

The Power Driver Bit Set - 32 Pieces

The set consists of 32, yes 32 of the driver bits that you don't normally see. You don't get any slotted, Phillips or Pozidriv™ bits

- 4 x Tri wing, size 1, 2, 3, 4
- 9 x Torx (tamperproof), size T8, T10, T15, T20, T25, T27, T30 and T35
 4 x Pin drive (snake), size 4, 6, 8 and 10
- 6 x In Hex (allen), *metric, size 2, 2.5, 3, 4, 5 & 6
- 6 x In Hex (allen), *imperial size 5/64", 3/32", 7/64", 1/8", 9/64" and 5/32"
- 3 x Torque Set, size 6, 8 and 10

With this you get a hex driver with magnetic retainer, all in a nifty plasticy rubber holder that is smaller than a deck of cards! (67 x 45 x 30mm).

- Tamperproof Torx works as normal Torx
- Tamperproof In Hex drive type





Qty 1+ Qty 3+ Qty 6+ TD2035 \$22.90 \$20.90 \$17.90

ELECTRIC SCREWDRIVER SETS

Rechargeable Lithium-Ion Screwdriver with Bits and Case

Ideal for makers, technicians, and other professionals who are assembling or repairing phones, watches, laptops, drones, and more. Integrated LEDs shine light on what you're working on, and five LEDs at the other end of the screwdriver indicate the power remaining. A tool magnetiser/demagnetiser is included to enable the bits to hold onto the screws, and a handy magnetic work mat prevents tiny nuts and bolts from rolling off your workbench while you work. 55 x S2 tool steel bits, including tamperproof types, are supplied, along with an extension rod, and handy carry case.

• 150 RPM no load speed

28mm Bits Included:

- Torx: T2, T3, T4, T5, TR6, TR7, TR8, TR9, TR10, TR15, TR20
 Hex: H0.7, H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H3.5, H4.0
 Phillips: PH0000, PH000, PH0, PH1, PH2

- Pentalobe: 0.8, 1.2, 1.5
 Tri-Wing: Y0.6, Y1.0, Y2, Y2.5, Y3.0
 Triangle: 2.0, 2.3, 2.5, 3.0

- Slotted: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5
 U type: 2.0, 2.6, 3.0 SQ: S0, S1, S2
- 46mm Bits Included:
- Phillips: PH0, PH2 Slotted: 2.5
- Hex: H2.0, H2.5





42 Piece Cordless Screwdriver Set

This small yet powerful electric screwdriver is perfect for small electronics work. Includes spare common bit sizes, mains charger and a convenient carry case.

RECHARGEABLE		•		CULT	Interestate !
			- 4		
Specifications	TD2500				
No Load Run Time	42 minutes				
Voltage	3.6V				
Charge Time	3 hours (from f	lat)			
	Phillips: #0 (x2), #1 (x2), #2 (x3	3), #3		

Flat: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8 Torx: T8, T10, T15, T20, T25, T27, T30, T40, T45 Pozi: PZ0 (x2), PZ1(x2), PZ2(x2), PZ3 Included Bit Sizes Hex: H1.5, H2, H2.5, H3, H4, H5, H5.5, H6, H8

Cat.	Qty 1+
TD2500	\$33.90

PRECISION DRIVER SETS

15 Piece **Micro Driver Set**

This handy set comes with all those microscopic fasteners we come across in modern electronics. The ergonomic handles are colour coded and they come in a sturdy storage case.

- Slotted: 1mm, 1.4mm, 1.8mm, 2.4mm
 Phillips: #000, #00, #0, #1
 Torx: T5, T6,T7, T8

- Hex: 1.5mm, 2mm, 2.5mm
- Drivers: 105mm long
 Case size: 192(L) x 130(W) x 26(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
15 Piece	TD2069	\$34.90	\$30.90	\$27.90

22 Piece **Long Bit Screwdriver Set**

Tackle a wide range of fastening scenarios using our compact screwdriver set comprising a selection of popular slotted, Phillips, Star and TRI bits, packed away neatly inside a handy storage case.

- Slotted: SL1.5, SL1.7, SL2.0, SL3.0 and SI 4 0
- Phillips: PH000, PH00, PH0, PH1 and PH2
- Star: T5, T6, T7H, T8H, T9H, T10H, T15H and T20H
- TRI: 2.5. 3.0
- Pentagonal: 1.6
- Pin drive (snake): SP2



1 YEAR

	Cat.	Qty 1+	Qty 3+	Qty 6+
22 Piece	TD2114	\$46.90	\$41.90	\$36.90

48 Piece Screwdriver Set with Carry Case

An impressive set of 48 precision driver bits, including tamperproof types, to repair Smartphones, games consoles, and other electronic gadgets. The bits are made from quality S2 tool steel and hardened to 58 HRC. When not in use, the magnetic bits hold in place in the handy storage container,

which has each part individually labeled so you can quickly choose the right bit you need. Suitable for hobbyist or professional use.

Bits Included:

- Point: 0.8
- Pinhead Phillips: 2.5
- U type: U2.6, U3.0
- SQ: S0, S1, S2 Triangle: 2.0, 2.3, 3.0
- Pentalobe: 0.8, 1.2,
- Phillips: PH000, PH00, PH0, PH1
 Slotted: 1.0, 1.5,
- 2.0, 2.5, 3.0, 3.5,
- 4.0 • Torx: T2, T3, T4, TR5, TR6, TR7, TR8, TR9, TR10, TR15, TR20 • Hex: 0.7, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 • Tri-Wing: Y0.6, Y2.0, Y2.5, Y1

- Aluminium Alloy Handle
- Case dimensions: 168(L) x 65(W) x 15(D)mm

	Cut.	City 11	Qty 51	Qty 01
48 Piece	TD2134	\$34.90	\$30.90	\$27.90

Cat

Tell a Friend

If you have a technical friend or someone who may be just interested in some of the products we stock, tell them to email their address details to:

CATALOGUE DEPARTMENT - JAYCAR:

catalogue@jaycar.com

5 Piece Torx Set

Easy to use colour coded Torx screwdrivers in a plastic case. Each screwdriver has a swivel head for easy use. Blade length is 20mm and torx sizes are T6, T7, T8, T9 & T10



6 Piece Precision Tamperproof Torx Set

A quality set of chrome vanadium drivers consisting of T7, T8, T9, T10, T15 and T20. All drivers are 145mm length & presented in a feltlined plastic case.





	Cat.	Qty 1+	Qty 3+	Qty 6+	
6рс	TD2021	\$24.90	\$22.40	\$19.90	

12 Piece Keycase **Mini Driver Set**

12 mini bits & driver in a key-sized storage case.

- Slotted: 1.5, 2, 5mm
- Phillips: 0, 00, 000
 Torx: T5, T6, T7, T10
- TN8, Hex 2.5mm
- Case size
- 95(H) x 60(W)mm



VEAR WARRANTY	HIII	
Cat.	Qtv 1+	Qtv 3+

	Cat.	Qty 1+	Qty 3+	Qty 6+
12 Piece	TD2105	\$29.90	\$26.90	\$23.90

73 Piece Multifunctional Screwdriver Set with Carry Case

A professional multifunctional screwdriver kit with over 60 bit attachments to open all kinds of electronic devices. It has all the bits you'd expect to find, such as Slotted and Phillips, but it also has tri-wing, pentalobe, torx, u-shape, and other tamperproof types. The handy storage case also contains various opening tools, tweezers, a suction cup, and a flexible attachment so you can reach those hard to get screws. A must-have kit for any technician or serious

- Quality precision bits made from 1mm S2 tool steel
- Storage case
- Opening toolsFlexible attachment
- Tweezers
- Suction cup

This is the ultimate minature screwdriver/ socket set for the dedicated craftsman

S-2 H4 x 28mm Bits:

Hex: H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H3.5, H4.0, H4.5, H5.0, H6.0

nex: Hu.Y, H1.3, H1.5, H2.0, H2.5, H3.0, H3.5, H4
Torx: T2, T3, T4, T5, T6, T7, T8, T9, T10, T15, T20
Slotted: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5
Phillips: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5
Tri-Wing: Y0.8, Y2.0, Y2.5, Y3.0
Pentalobe: 0.8, 1.2, 1.5, 2.0
Square: SQ0, SQ1, SQ2
Triangle: 2.0, 2.3



U-Shaped: U2.6 Tri-Wing: Y2.5 Triangle: 2.3 Socket H4 x 28mm Bits:

Hex: M2.5, M.0, M3.5, M4.0, M4.5 M5.0, M5.5

Torx: G3.8, G4.5

Torx: T10



	Cat.	Qty 1+	Qty 3+	Qty 6+
73 Piece	TD2136	\$56.90	\$50.90	\$44.90

DRILLING & METALWORK TOOLS

DRILLS & DRILL SETS

20 Piece Micro Drill Set 0.3 - 1.6mm

20 micro drills in an indexing storage case, ideal for drilling wood, composites, plastic or soft metals. Indexed case enables removal of the bit you want without the risk of spilling them all over the place.

 Sizes 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1.0, 1.2, 1.3, 1.4, 1.6, 1.6mm

Case size: 130(L) x 70(H) x 8(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
20 Piece	TD2406	\$15.90	\$13.70	\$12.30

31 Piece Mini Tap & Die Set

This 31 piece set is for the ultra small screws found in electronics. The kit consists of 9 metric screw cutting dies: 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2 & 2.5mm types in high speed steel and 18 equivalent taps in the same sizes above but with a taper and a plug version of the tap. There are 2 die liners to accommodate the smaller dies in the stock supplied. You will love this rare product. Supplied in a see-through plastic case which securely holds all parts.

• Dimensions: 83(W) x 153(L) x 12(D)mm





	Cat.	Qty 1+	Qty 3+	Qty 6+
31 Piece	TD2443	\$94.90	\$85.50	\$76.90

Pin Vice

A handy addition to any tool case. All metal construction with two internal collars. The head rotates freely making it ideal for drilling delicate PCBs or plastic cases.



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1772	\$17.90	\$16.10	\$14.30

Spiral Drive Drill / Driver

The unit consists of a collet-type chuck and handle with a spiral shaft. Pushing the handle towards the job causes the collet to rotate. This would enable a drill (or screwdriver bit for that matter) to very gently and slowly rotate. It is ideal for very fine work and does need some practice to perfect your technique.

- Includes 2 pin vice collets: 0.3-1.0mm & 1.8-2.6mm
 Also 3 small drill bits in tubular case
- Dimensions: 180(L) overall (uncompressed) x 15(Dia.)mm



Engineer Scale Ruler with Useful Information

A multifunction ruler for the electronics designer tha includes several relevant charts and diagrams like angle gauges, IC pin spacing tables and chip resistor/capacitor package sizes. Gold plated printing on genuine circuit board material will ensure a long life. It also functions as a regular ruler! Angle Gauge, IC Spacing Tables, SMD Resistor/Capacitor Sizes, and Drill Diameter Reference.

• R-4 Gold Plated



PCB Drill Chuck

This chuck will allow you to use mini drills from 0.6mm up on your normal drill / cordless drill / power screwdriver orscrewdriver which accepts standard hex bits.



Cut.	caty ii	city 5.	Qty 0.
TD2010	\$13.90	\$12.90	\$10.90

4 Piece Countersink Set

The easy way to deburr or countersink. Simply drill hole, insert tool with appropriate bit, and turn for a countersunk angle of 90°. Bits include 12, 16 and 19mm - all hardened carbon steel.



Universal Drill Press Stand

Convert your standard power drill or rotary tool into a drill press with this adjustable stand. Substantially cheaper than purchasing a full drill press, the stand still has all the necessary features expected in a full size press. It includes separate adjustments for limiting press depth and drill height so you can change drill position with minimal risk of over-drilling into the stand. The drill collar can be adjusted to suit a variety of tools. Heavy duty cast metal base and frame provides excellent stability.

- Allen key supplied for tightening drill collar
- Drilling depth: Up to 60mm
 Maximum collar diameter: 43mm
- Minimum collar diameter with
- insert: 35mm
- Dimensions: 497(H) x 350(W) x 160(D)mm



Note: Drill not included					
	Cat.	Qty 1+	Qty 3+	Qty 6+	
	TD2463	\$58.90	\$52.90	\$46.90	

Sheet Metal Bender - Pan Break Style (Vice Break)

This unit sits in the jaws of your bench vice (100mm+ recommended). It retains itself in the vice with strong recessed magnets. One half consists of the familiar blade that bends the sheet metal. The other half in the 90 degree recess that the blade pushes into. By carefully positioning the sheet, you can perform a perfect 90 degree bend as good as a workshop! The blade is segmented, just like a workshop pan break, so that you can make partial bends. With a little practice, you will be able to fabricate brackets, small boxes & other metal assemblies like a pro. Warning: This unit is not particularly cheap. It is, however, very well made. It is cast steel with tool steel pressing components. You need it to be sturdy, otherwise it would break or flex. It will, literally, last a lifetime. Will fold sheet up to 125mm, however there are 3 x press segments 2 x 50mm, 1x25mm and these are independently removable by Allen head

set screws. Depending on the width of the material you could easily bend steel strips up to 4mm thick and 25mm wide. Aluminium should not be a problem up to 4mm thick & 100mm wide, depending on your vice

Dimensions: 125(L)x30(W)mm both halves



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1763	\$99.90	\$89.90	\$79.90

\$23.90

BENCH VICES & ACCESSORIES

Mini Bench Vice

This sturdy lightweight vice will clamp to surfaces up to 1" thick and hold material up to 2" thick. This handy tool is ideal for hobby work or as a light duty workshop bench vice. Made from strong, lightweight aluminium that won't rust or corrode, the vice will be a useful addition to anyone who needs a third hand!





Cat.	Qty 1+	Qty 3+	Qty 6+
TH1764	\$20.90	\$18.90	\$16.90

270° Rotation Clamp Vice

Rotate the head through 270° to make your work easier. The base will clamp to any bench or table up to 55mm thick and the 40mm jaws will take a job up to 58mm in size. Once in position, the head is easily fixed in position with a quick release lever.

• Base: 115(W) x 94(D)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1769	\$41.90	\$36.90	\$32.90

Vacuum Bench Vice - 75mm Jaw

This quality vacuum vice is made from hardwearing diecast aluminium. The vice consists of three-pieces; a vacuum base, ball joint clamp and a 75mm opening jaw with removable soft rubber jaw covers.
The 'V' grooved jaws are ideal for holding cylindrical and irregular shapes, making it well suited to small bench jobs such as model building, jewellery making and general PCB/chassis work. The multi-positional ball swivel allows the jaws' working position to be varied through a full 360° axis.

• Stands approximately 160mm tall



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1766	\$48.90	\$44.00	\$39.10

FISH TAPE

Wire Draw Fish Tape

A fish tape is a tool that's used to draw wire and cable through wall cavities or conduit. Instead of a clumsy method of using, say a length of fencing wire and hours of frustration, this handy tool uses 15m of flat, rigid spring steel with a built-in cable eye on the end to making running cables easy. You can easily direct the rigid wire exactly where you need to, and when not in use the tape rolls back up into its own case for easy

storage. No electrician, data cable, antenna, hóme theatre or security installer should be without one.

- Made with Flexible High-Strength Steel in Durable PlasticRust and Corrosion Resistant

disconnected from the mains before use

• No Kink Design

• Length: 15m

Electrical safety warning: Conduits, wall, floor and roof cavities contain live electrical wiring. DO NOT use this device anywhere around live elect wiring. Ensure all electrical power is turned off and

Cat.	Qty 1+
TH2350	\$29.90

WORKSHOP TOOLS

Soldering Heatsink / Component Holder

This quality small tool is ideal as a heatsink when soldering to remove some of the heat from the semiconductor/component while soldering. It can also be used to hold small parts while soldering to avoid burnt fingers. Supplied with insulated handles and length is 65mm.



Cat.	Qty 1+	Qty 3+	Qty 6+
TD2122	\$9.90	\$8.90	\$7.90

PLCC Extractor

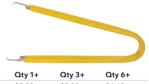
There's really only one way to remove a PLCC chip safely - and this is it. Basically a spring assisted clip carrier extractor, specifically designed to see safe and hassle free removal of PLCCs from sockets



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1816	\$16.90	\$15.20	\$13.50

IC Extractor 8 - 40 Pins

Deceptively simple looking device. One piece metal construction. 8 - 40 pins.



Cat.	Qty 1+	Qty 3+	Qty 6 +
TH1818	\$5.80	\$5.20	\$4.60

Budget SMD Vacuum Pickup Tool

Budget SMD component pickup tool. This handy workshop SMD component pickup tool fits into your pocket and uses vacuum pressure to pick up your sensitive components without damaging them. An amazingly useful tool!

- Easy to use, one-hand operation.
- Picks up to 50g in weight.
- Supplied with 3 vacuum pads



WORK MATS

Benchtop Work Mat

Protect your benchtop. This durable A3 size PVC cutting mat is just the thing to protect your work benchtop. You can cut on it, solder, write on it, and not damage your workplace.

• 3mm thick



	Cat.	Qty 1+	Qty 3+	Qty 6+
450 x 300mm	HM8100	\$15.90	\$13.70	\$12.30

Silicone Benchtop Work Mat

The ultimate working mat for the advanced hobbyist or technician. The mat measures 389 x 269mm and is made from heat resistant silicone, making it suitable for soldering applications. It has multiple indentations to hold screws, parts, and components, and various magnetic areas to hold metal parts securely in place. It has a 28cm

ruler and an area to hold up to 12 jeweller type screwdrivers. Ideal if you perform delicate work with tiny screws and parts to ensure you don't lose them while you're working.

- Heat resistant silicone
- Parts indentations
- 28cm ruler
- Magnetic areas to secure metal parts

	Cat.	Qty 1+	Qty 3+	Qty 6+	
389 x 269mm	HM8102	\$22.90	\$20.90	\$17.90	

MAGNETS & WORKSHOP TOOLS

MAGNETS

Large Rare Earth Magnets - Pair

These rare earth magnets are exceptionally strong. They are made from NdFeB (Neodymium Iron Boron), providing the highest available magnetic energy of any material. Suitable for a wide

variety of applications where a very strong magnet is required. The nickel casing protects the magnets because the material is very brittle.

- Sold as a pair
- Sold as a pair
 Dimensions: 19mm dia x 28.2mm long
 Grade: NdFeB, N35
- Coating: Nickel



	Cat.	Qty 1+	Qty 6+	Qty 20+
Pair	LM1652	\$39.90	\$35.90	\$31.90

Ferrite Magnets

Ideal for hobby and craftwork, school projects etc. Can be glued to wood, plastic rubber etc.

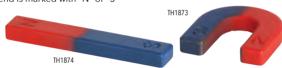


	Cat.	Qty 1+	Qty 6+	Qty 20+
10(L) x 10(W) x 4(D)mm - Pkt 12	LM1616	\$5.80	\$5.20	\$4.60
20(L) x 15(W) x 5(D)mm - Pkt 6	LM1614	\$5.80	\$5.20	\$4.60

Magnet Bars

Educational magnets. Ideal for hobbyists & children to learn more about magnetism.

• Each end is marked with "N" or "S'

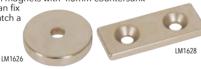


1111074				
	Cat.	Qty 1+	Qty 6+	Qty 20+
Bar Magnet -70(L) x 12(W) x 5(D)mm	TH1874	\$2.40	\$2.15	\$1.90
U Shaped - 30(L)mm x 30(W)mm	TH1873	\$2.40	\$2.15	\$1.90

Rare Earth Magnets with Mounting Holes

Super powerful rare earth magnets with 4.5mm countersunk

mounting holes so you can fix them to your project to latch a door closed, etc.



	Cat.	Qty 1+	Qty 6+	Qty 20+
Round 25(dia) x 5(H)mm	LM1626	\$14.90	\$13.90	\$11.90
Rectangle 50(L) x 20(W)mm	LM1628	\$20.90	\$18.90	\$16.90

Rare Earth Magnets

These magnets feature rare earth compounds combined with ferrite (anisotropic) to produce incredibly strong attraction/ repulsion. They are encased in nickel jackets because the material itself is very brittle. We warn you that getting a finger between these could result in a nasty pinch! They are provided with a nickel plated iron "keeper".



	Cat.	Qty 1+	Qty 6+	Qty 20+
Small - 10mm dia x 3(H)mm - Pkt 4	LM1622	\$11.90	\$10.90	\$9.90
Medium - 25mm dia x 5mm - Each	LM1618	\$11.90	\$10.90	\$9.90

Flexible Adhesive Magnetic Rubber Strip

This self adhesive magnetic rubber strip can be cut down to suit an application and makes an ideal fridge magnet for adhering to promotional material such as menus,





	Cat.	Qty 1+	Qty 6+	Qty 20+
500(L) x 15(W)mm	LM1612	\$5.80	\$5.20	\$4.60

WORKSHOP TOOLS

4 Piece Mini Pick & Hook Set

These hook tools have stainless steel heat treated points, and are ideal for use on O-rings, springs, snap rings, washers, checking soldering joints, general hobbyist kit building, and probing into things, etc.

Hooks are: Straight pick, 90° hook, full hook, small angle hook.

	Cat.	Qty 1+	Qty 3+	Qty 6+
4 Piece	TH1762	\$19.90	\$17.90	\$15.90

Pearl Catch

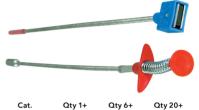
Incredibly handy tool for those moments when you need to pick up small fiddly bits and pieces. Will clip to and hold small nuts, bolts, washers, transistors, resistors, etc.

• Metal construction				
	Cat.	Qty 1+	Qty 3+	Qty 6+
Pearl Catch	TH1842	\$11.90	\$10.70	\$9.50

Super Extension Claw & Magnetic Pickup

Actually two tools. Tool No. 1 is a 600mm long flexible syringe-action claw gripper similar in operation to a pearl catch. The 4 prong gripper will capture an object up to 15mm in diameter with about 500g of gripping force. It is ideal for retrieving, say, a nut or screws in an engine compartment

or piece of equipment. Tool No. 2 is the same thing except that it has a magnet on the end instead of a claw. We sell them as a set because they complement each other.



	Cat.	Qty 1+	Qty 6+	Qty 20+
Both 600mm long	TH1868	\$11.90	\$10.90	\$9.90

Magnetic Pickup Tool with Claw and LED

These are a must for any workbench or toolbox. We've all dropped screws and tools into hard-to-reach places by accident, and retrieval can be a painful process. This device has a claw and magnet on the end of a 60cm spring-steel shaft, so you can work it into the strangest of places. A small LED also helps you see what you're doing! Exceptionally useful.

- Magnetic tip with claw
- Flexible spring steel shaft

 LED illumination 	n

			.LD IIIuIIIIIa	tion
Specifications	TH1864			
Batteries	3 x LR44 (I	ncluded)		
Weight	90g			
Dimensions	60cm			
	Cat.	Qty 1+	Qty 6+	Qty 20+
600mm long	TH1864	\$16.90	\$14.90	\$13.90

This pen type tool will scribe on metal, glass, plastic, ceramics and tools. Stylus is made of tungsten steel. Looks like a pen, and has a pocket clip



	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm long	TD2120	\$9.90	\$8.50	\$7.50

Automatic Centre Punch

This handy tool allows you to make a centre punch mark with one hand. You simply hold the unit against where you would want a centre punch mark, apply downward pressure until the internal hammer mechanism trips. The pressure is adjustable, depending on the hardness of the surface. Sturdy brass body with hardened steel centre punch.

 Sometimes called a prick-punch

	Cat.	Qty 1+	Qty 3+	Qty 6+		
125mm long	TH1770	\$11.90	\$10.90	\$9.90		

KNIVES & FILES

14 Piece Precision Hobby Knife Set

Handy hobby tool set comprising of 10 different blades, handle, 70mm long tweezers, 90mm long flat screwdriver and vernier calipers, which measure up to 81mm (3.1inches).

Blades included:

1 x #1 3 x #11 1 x #4 2 x #12 1 x #17 1 x #7

1 x #10



• Case dimensions: 170(W) x 85(W) x 35(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Hobby Knife Set	TH1916	\$24.90	\$22.40	\$19.90
Spare Blades - 10 Per Set	TH1917	\$7.90	\$7.20	\$6.50

Artwork Knife

Light duty precision knife with safety cap. Ideal for fine angle cuts, etching, hollowing, scoring, scraping, scribing, stripping and trimming. Four piece jaw chuck method of blade retention.

=	 _	_	-	
	Cat.	Qty 1+	Qty 3+	Qty 6+
Knife	HG9955	\$5.90	\$5.20	\$4.70
Blades Pkt 5	HG9956	\$4.90	\$4.10	\$3.70

File Saw

Great for cutting odd shapes in plaster, PVC pipe, PVC sheeting, leather, plastic and many other soft materials. The blade measures 175mm long and the large, easy grip handle is 120mm long. Not to be used as a nerve broach or other dental work



	Cat.	Qty 1+	Qty 3+	Qty 6+
File Saw	TH2127	\$20.90	\$18.90	\$16.90

10 Piece Needle File Kit

Every toolbox should have a set of needle files. This set contains every profile you could ever need. All have integrated plastic handles and come in a handy storage wallet. Each is 162mm long. Profiles:

- Round
- EllipticalHalf-round
- Double half round
- Triangle
- Square
- Flat
- Flat tapered
- Knife • Flat tapered safe back

	Cat.	Qty 1+	Qty 3+	Qty 6+
10 Piece	TD2128	\$20.90	\$18.90	\$16.90

Deburring Tool

Clean up the edges of a hole. Suitable for steel, plastic, wood etc. Blades are fully ground for safety. SK2 steel blades are hardened to HRC64. Supplied with spare blade. Will deburr virtually anything.



Cat.	Qty 1+	Qty 3+	Qty 6+	
TH1845	\$15.90	\$13.90	\$12.90	

Deburring Tool Suitable for Pipes





After

This drill-mounted tool fits in the chuck of an electric drill.

It is designed to almost instantly produce a burr-free threaded end to a bolt or threaded rod that has been hacksawed, guillotined, etc. It covers threaded bolts or rods from about 6.0 to 18.0mm diameter. It will also chamfer, say, a round bar or ½" diameter piece of concrete reinforcing bar. It works on mild steel, brass, stainless steel (only works marginally well on stainless steel) etc. This will increase productivity on a building site but is also ideal for the home handy man.

Dimensions: 52(L) x 28(Dia.)mm.

Works well on mild steel, reobar, brass etc. Not so good on stainless steel.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1854	\$10.90	\$9.90	\$8.90

SPANNER AND ALLEN KEY SETS

10 Piece Spanner Set for Electronics

Ideal mini spanner set. Set of 10 pieces, open end/ring combinaion. Suitable for light hobbyist use.

- Sizes supplied are: 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10 & 11mm
- Supplied in a plastic wallet



	Cat.	Qty 1+	Qty 3+	Qty 6+
10 Piece	TH1910	\$29.90	\$26.90	\$23.90

25 Piece Allen Key Set

25 different size Allen keys in a plastic wallet. Both metric and imperial sizes.

- Metric: 1.27, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 10.0mm
- Imperial: 3/8, 1/4, 7/32, 3/16, 5/32, 9/64, 1/8, 7/64, 3/32, 5/64, 1/16"



	Cat.	Qty 1+	Qty 3+	Qty 6+	
25 Piece	TD2052	\$15.90	\$14.30	\$12.70	

ALLEN KEYS FOR CORDLESS DRILL USE

Allen keys are very common these days and small sets like the one above are really quite inexpensive. The boss here has a set where he has cut off the short return piece of the Allen key with an angle grinder. The Hex bit then fits conveniently into the chuck of the cordless drill. The low speed setting on a typical "cordless" is generally more than enough torque for most jobs. It's a great way to assemble flat-pack furniture & saves wear & tear on your fingers. furniture & saves wear & tear on your fingers.

Find Out More In Store

Our staff offer friendly and helpful service. We're here to help.

SPECIALTY REPAIR TOOLS & MAGNIFIERS

WATCH REPAIR TOOLS:

Jaycar has been fiddling with micro tools for years now, from tiny jewellers screwdrivers to small spanner sets to tiny table mounted vices etc. We have discovered a source of reasonably priced watchmakers' tools (real; pullwatches-apart-tools.) Here they are, folks. We expect them to be popular; they are Jaycar kind of products

2 Piece Watch Case Opener Set

This set consists of an adjustable opener that engages the little recesses on the back of a watch. You can adjust the removing lugs very accurately to get a tight fit - absolutely essential. The other half

of the set looks like a small oyster shucking knife (Appropriate when you think about it!). It is just fine enough to get into that tiny groove that some of the older watch covers

• Can open cases 6 - 50mm diameter



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1929	\$29.90	\$26.90	\$23.90

4 Piece Watchmakers' Kit

Central to this kit is the hand held watch case opener/holder. It has a screw-adjustable case retainer with a very large selection of retaining lugs - indeed 18 in all, some the same. Also included is a large dusting bulb pump, No. 7 tweezers and fine dusting brush. You will be delighted with this set.

466	4 6 6 6 6	00000	
Cat.	Qty 1 +	Qty 3+	Q ty 6+
TH1932	\$46.90	\$42.40	\$37.40

Watchmaker's Mallet with Interchangeable Heads

This unit weighs almost 90 grams and is 185mm long. It features 6 different heads, 4 steel ones, a brass one and acrylic plastic one. It seems that even in watchmaking you need a "persuader". Ball pein on the opposite end.



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1927	\$18.90	\$16.90	\$14.90

Watch Bracelet Link Removal Pliers

This tool enables you to remove and reinstall the fiddly little bracelet pins, so necessary when the bracelet band is new and generally too big for the wearer. It comes with a 1.0mm and 0.8mm pin removal insert



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1923	\$49.90	\$44.90	\$39.90

Watch Case Holder

The sturdy, but adjustable frame has 4 nylon retaining posts to enable a good safe grip on the watch case. The frame could then be held in a vice, freeing up your hands. Note: Watch not included.



\$17.90



Wrist Watch Strap Spring Bar Assortment

This is a must. A selection of the little spring bars that get broken/bent/ lost even by the most careful wearers. This set frees you from the tyranny

Cat

TH1934

of the watchmaker. One use will pay for the cost of the whole set. The assortment consists of a total of 360pcs of the most common sizes: from women's 8mm to men's 25mm. All 1.5mm Dia. In detail the set includes 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 & 25mm types. Has single sided spring bar and double sided types. Supplied in quality compartment



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1928	\$29.90	\$26.90	\$23.90

Pin Extractor Press

A handy little pin-extractor/ inserter press with a 0.8mm punch. Mainly intended for taking links out of watch bands, but endless other uses for jewellery making, modelmaking and hobbies.

- 2 spare pin punches
- Assortment of 12 pins

A	No.	n	p.A45 nini HSS tap & die set	
Cat.	Qtv 1+	Qtv 3+	Qtv 6+	

Cat.	Qty 1+	Qty 3+	Qty 6+
TH2014	\$13.90	\$12.50	\$11.10

MAGNIFIERS

Eye Magnifier

This 3 times magnifier is handy for checking PC boards, looking at stamps or coins, jewellery, etc.

- Every hobbyist should have one
- Dimensions: 28(H) x 22(dia view area) x 40(dia base)mm

- (/					
	Cat.	Qty 1+	Qty 5+	Qty 10+	
3x Magnification	QM3515	\$11.90	\$10.90	\$9.90	

LED Handheld Magnifier with Three Lenses

This versatile illuminated hand magnifier set includes three interchangeable lenses. Built in LEDs mean this is great for bedtime reading, don't wake your partner reading with the lights on anymore.

• Requires 2 x AAA batteries (sold separately)



	Cat.	Qty 1+	Qty 5+	Qty 10+
2.5x, 5x, 16x Magnification	QM3519	\$22.90	\$20.90	\$17.90

Folding Desktop Magnifying Glass

This huge 4.5" diameter viewer allows hands free operation. It will fold into a neat and easy to store package.



	licroscopes	
Qty 5+	Qty 10+	
¢10.00	¢0.00	

p.A126

Cat 2x Magnification QM3505 \$11.90 \$10.90 \$9.90

Handheld Magnifying Glass with COB LEDs

Powerful magnification with the added benefit of LEDs, all in a convenient hand-held case! It weighs just over 200g including batteries, so you can take it anywhere too. There are three LEDs so it will provide well-spread illumination of your subject matter. Includes LED on/off switch.

- 3 x COB LEDs
- LightweightHandheld
- Weight: 201g (Including Batteries)
- Requires 2 x AA batteries (sold separately)
- Dimensions: 240(L) x 114(W) x 20(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
3x Magnification	QM3535	\$14.90	\$13.90	\$11.90

3.5x LED Magnifier with Scale

With all metal construction and glass optics, this superb little magnifier provides 10 dioptre magnification with razor-sharp clarity. Inside the viewer is a graduated scale in metric and imperial graduations so you can actually take measurements of an object down to fractions of a millimetre.

Three LEDs and the 26mm eyepiece provide crystal-clear even illumination of the subject. Ideal for checking PCBs in preproduction, lab, science, education or engineering applications.

- · Satin chrome finish
- Ground glass optics
- Includes 2 x AA batteries
- Dimensions: 180(L)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
3.5x Magnification	QM3539	\$36.90	\$33.20	\$29.50

LED Headband Magnifier

This magnifying headset leaves both hands free and can be worn over prescription or safety glasses. It also has a built-in LED light that can be rotated up, down or side to side to illuminate your work. There are three lenses that can be used in combinations to give 1.5x, 3x, 8.5x or 10x magnification. The head strap is fully adjustable and locks into position and the lens assembly can be swivelled up out of the way when not in use. A multitude of uses including lapidary, jewellery, model-making, electronics and camera repair.



• Requires 2 x AAA batteries

	Cat.	Qty 1+	Qty 5+	Qty 10+
1.5x, 3x, 8.5x, 10x Magnification	QM3511	\$36.90	\$33.20	\$29.50

None of the products shown here magnify our prices!!

Illuminated Gooseneck Magnifier

The gooseneck magnifier is a valuable accessory for coin/stamp collectors, photography etc. The 2X main lens and 5X insert lens with the bonus of 2 LED lights, is a welcome addition for any hobbyist. The magnifier is clip-on or free standing. Suitable for most flat surfaces or workplace incline up to 38mm thick. The flexible metal arm ensures that you can position the magnifier just where it's needed. This handy magnifier also comes with a soft protective pouch for your lens to protect it from dirt and dust. It also has metal stablisers to ensure that your magnifier remains stable while working.

• Stands 225mm high

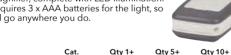
3x Magnification

- Lens Diameter: 88mm
- Requires 3 x AAA batteries

	Cat.	Qty 1+	Qty 5+	Qty 10+
2x/5x Magnification	QM3532	\$36.90	\$33.20	\$29.50

Collapsible Mini Magnifier

Collapses down into a compact size for storage or travel, but opens up into a powerful 8 dioptre magnifier, complete with LED illumination. Requires 3 x AAA batteries for the light, so it'll go anywhere you do.



\$16.90

\$14.90

\$13.90

QM3536 1.75x Desktop Magnifier with LEDs

Perfect for compact workspaces. A large 100mm 3-dioptre glass lens provides powerful magnification. 30 LEDs are mounted around the ring for perfect illumination. The desktop stand includes two knuckles so you can adjust the lens to where you need it.

Mains powered, adaptor included.

Specifications	QM3552
Power	240V @ 32mA, 6W, 50/60Hz
LED Type	SMD 2835
LED Lifetime	20,000 Hours
Lumens	560
Light Colour	6000-6500K -CRI80
Lens	100mm Glass
Weight	1.2kg
Cable Length	1.3m
Dimensions	184(W) x 330(H) x 160(D)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
1.75x Magnifying Lamp	QM3552	\$69.90	\$62.90	\$55.90
2.25x, 5 dioptre lens to suit	QM3553	\$14.90	\$13.90	\$11.90

3x Laboratory Magnifier with LEDs

The ultimate workbench companion when working on tiny projects. Powerful 127mm diameter 3-dioptre magnification lens brings tiny items into clear view, while the fully adjustable arm puts it wherever you need it. 60 LEDs around the ring of the magnifier provide powerful illumination with high / low brightness settings. A plastic flip-down cover keeps the magnifier glass in top condition when not in use. Mains powered, adaptor supplied.

• High / low light settings

- Fully adjustable arm with clamp mount
- Large diameter magnifier

1.75x, 2.25x, 3x Lab Magnifier

5 dioptre lens to suit

8 dioptre lens to suit

Specifications	QM3554
Power	240V @ 62mA, 4W/8W, 50/60Hz
LED Type	SMD 2835
LED Lifetime	20,000 Hours
Lumens	380/760
Light Colour	6000-6500K -CRI80
Lens	127mm Glass
Weight	2.4kg
Height	Up to 900mm



Qty 1+	WARRANTY Qty 5+	Qty 10+	
\$139.00	\$124.90	\$110.90	
\$14.90	\$13.90	\$11.90	
\$22.90	\$20.90	\$17.90	

Rolling Floor Base for Magnifying Lamps

Mount a magnifying lamp to this base and you can roll observation work. Great for lab work. Heavy base so it doesn't easily topple over.

Cat

QM3554

OM3555

OM3556



• Dimensions: 700(H) x 385(Dia)mm

Cat.	Qty 1+	Qty 5+	Qty 10+	
QM3549	\$119.00	\$106.95	\$94.95	



Qty 6+

\$15.90

LED DESK LAMPS

Rechargeable LED Desk Lamp with Clamp

Fantastically stylish with touch-sensing brightness control. It's rechargeable and will run for up to 12hrs depending on the brightness setting. The gooseneck allows you to position it just where you want, and the desk clamp keeps it firmly in place. Ultra bright, white COB LED for daylight white light. The LED head also features rubberised ABS for durability. So delightful it suits the workbench, bedside table, or study area all very well.

Specifications	SL3145				
Battery	500mAh lithium polyn	500mAh lithium polymer battery			
Burn Time	Up to 12hrs		-		
Recharge Time	5hrs				
3 Level Brightness	100%, 70%, 30%		YEAR		
Dimensions / Weight	115(L) x 55(W) x 380(H	I)mm, 130g	WARRANTY		
Lumens	Cat.	Qty 1+	Qty 3+		
120	SL3145	\$19.90	\$17.90		

LED Desk Lamp with Qi Wireless Charging

This modern desk lamp can wirelessly charge your Qienabled phone while you're at your desk. Simply place your phone on the charging zone on the lamp's base for up to 5W charging, and take it away without any restriction of a charging cable. There is also a 5V 1A USB port in the base for you to charge other phones and devices that cannot be wirelessly charged. The bright flickerless LED lamp has an adjustable head to shine the light just where you need it, and has a touch switch to select between natural or white light, or to adjust the brightness. A USB power cable is supplied to power the lamp from an available 5V power source (2A or higher)

Specifications	SL3150			
Input Power	5VDC @ 2A			
Wireless Charging	5VDC @ 1A	WIDELESS	au . Bainia	
USB Current Output	5V@1A(5W)	WIRELESS	CHARGING	
Output Power	5W			
Charging Efficiency	75% (Max)			obusnos
Colour Temperature	3000-6500K			1661
Dimensions	323(H) x 275(D) x	120(W)mm		
	Cat.	Qty 1+	Qty 3+	Qty 6+
	SL3150	\$39.90	\$35.90	\$31.90

A50 Freecall order hotline: 0800 452 922 jaycar.co.nz

STORAGE CASES

Ideal for carrying small components and is an indispensable addition to any tool kit. See through plastic construction enables the contents to be easily identified and the 2 snap action latches secure the lid and keep everything in its rightful place.

6 Compartment Mini Storage Case

2 of the compartments have guides to enable them to be divided in half and 2 dividers are included.

- Compartments: 27(W) x 77(L) x 23(D)mm
- Overall dimensions: 125(W) x 85(L) x 27(D)mm



	Cat.	Qty 1 +	Qty 4+	Qty 10+	
6 Compartments	HB6308	\$4.10	\$3.65	\$3.25	

18 Compartment Storage Box

Consists of three rows with removable dividers so you can configure it for longer parts.

- Compartment size: 37(L) x 37(W) x 30(D)mm
- Dimensions: 230(L) x 115(W) x 35(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
18 Compartments	HB6306	\$5.90	\$5.30	\$4.70

18 Compartment Storage Case

6 compartments measuring 43(W) x 37(D) x 167(L)mm. These can be divided into 2, 3 or 4 sub-compartments using the dividers provided.

 Overall dimensions: 274(W) x 40(D) x 175(L)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
18 Compartments	HB6312	\$13.90	\$12.90	\$10.90

28 Compartment Storage Case

Can be configured to have anything from 4 big compartments measuring $350(W) \times 52(L) \times 45(D)$ mm to 28 compartments measuring $48(W) \times 52(L) \times 45(D)$ mm, or anything in between using the dividers provided.

Overall dimensions: 357(W) x 48(H) x 220(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
28 Compartments	HB6313	\$19.90	\$17.90	\$15.90

Industrial Storage Cases

Built for the rough and tumble of the building site, factory or workshop. Made from sturdy ABS with solid clasps and removable compartment trays so you can take parts with you to the job. Two sizes available:

15 COMPARTMENT STORAGE

12 compartments: $55(L) \times 40(W) \times 50(D)$ mm 3 compartments: $80(L) \times 50(W) \times 50(D)$ mm Case size: 335(L) x 205(W) x 60(D)mm

19 COMPARTMENT STORAGE

4 compartments: 55(L) x 40(W) x 50(D)mm 80(L) x 50(W) x 50(D)mm 110(L) x 80(W) x 50(D)mm 8 compartments: 7 compartments: Case size: 335(L) x 420(W) x 60(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
15 Compartments	HB6304	\$10.90	\$9.90	\$8.90
19 Compartments	HB6305	\$20.90	\$18.90	\$16.90

MAN CAVE STORAGE

44 Piece Wall Mounted Storage

Keep your workbench neat and tidy, while having everything at your fingertips. This fantastic 44-piece organiser mounts to the wall, while providing various methods for storage. There's 28 storage bins in various sizes, 4 assorted tool holders, and 10 pegs for hanging items too. It can be laid out in all sorts of different configurations to suit your particular needs. It takes just minutes to assemble, and you're ready to go. Minor assembly required

- Various tool holders
- Assorted bin sizes
- Flexible mounting configuration

Specifications	HB6340			
Overall Weight	4.9kg			
Dimensions	Blue Bins:	100(W) x 163(x 115(D) x 70(l D) x 72(H)mm x 210(D) x 70(l W) x 538(H) x	
	Cat.	Qty 1+	Qty 4+	Qty 10+
44 Piece	HB6340	\$45.90	\$40.90	\$35.90

16 Bin Tabletop Storage Organiser

A simple way to keep your desktop free from component clutter and mess. The benchtop stand provides support for 12 small storage bins, and 4 large storage bins to hold your components, spare parts, small tools, or whatever you like! There is also a fantastic magnetic strip along the top of the frame, perfect for storing all your steel hand tools such as screwdrivers and spanners, or even just loose screws, bolts, nuts and other easily lost metal parts! Some basic assembly is required.

- Magnetic strip for tools
 Plenty of storage
- No fuss setup



			-	
Specifications	HB6341			
Bin Capacity	Red: 2.2kg, E	Blue: 3.6kg		
Weight	2.7kg			
Dimensions	Red Bins: 103(W) x 165(D) x 76(H)mm Blue Bins: 152(W) x 235(D) x 127(H)mm Organiser: 635(W) x 254(D) x 658(H)mm			
	Cat.	Qty 1+	Qty 4+	Qty 10+
16 Bins	HB6341	\$56.90	\$50.90	\$44.90

PARTS CABINETS

6 Bin Parts Rack Cabinets SMALL

Similar to our large parts rack, this unit is designed to house smaller items such as ICs, nuts, screws etc.

- Trays measure 60(W) x 65(H) x 45(D)mm each and also tilt down to 45 degrees
- Can be wall mounted & multiple units can be used for larger storage requirements
- Overall dimensions: 400(W) x 75(H) x 60(D)mm



This handy parts rack holds a variety of components in neat, see through trays that tilt down to an angle of 45 degrees for easy access.

- Each has an integrated label holder and measures 85(W) x 95(H) x 65(D)
- The rack can be wall mounted and multiple units can be nested together for larger storage requirements



HB6318

\$31.90

30 Drawer Parts Cabinet

Large Rack Cabinets

6 rows of 5 drawers, measuring 50(W) x 115(D) x 30(H)mm. Ideal for workshop use & can be wall mounted.

- Stack multiple units together for larger storage
- Overall size: 280(W) x 130(D) x 210(H)mm



\$28.70

\$25.50

HB6317

	Cat.	Qty 1+	Qty 4+	Qty 10+
30 Drawers	HB6323	\$36.90	\$33.20	\$29.50

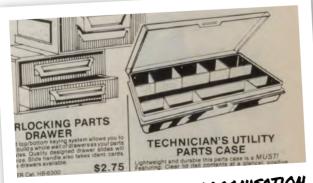
33 Drawer Parts Cabinet

A very useful cabinet with 8 rows of 4 pull out drawers (32 drawers) plus one full width pull out drawer at the bottom for larger items (total 33 drawers). Each small ďrawer is 125mm deep and 65mm wide. The unit can be free standing, or, wall mounted if required. Ideal for storage requirements and

• Dimensions: 414(H) x 304(W) x 135(D)mm



	Qty 10+
33 Drawers HB6330 \$36.90 \$33.20	\$29.50



YOYRS OF WORKBENCH ORGANISATION

12 Drawer Modular Storage Cabinet

Get your work area in order and looking amazing with this modular parts storage system. The cabinet measures $295 \times 200 \times 160$ overall, and features twelve slide-out draws to keep your

components organised. Add more cabinets on top or side-by-side by simply sliding them into the locking guides on the side or base.

• Dimensions: 295(W) x 200(H) x 160(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
12 Drawers	HB6332	\$22.90	\$20.90	\$17.90

4 Tray Tool/Storage Case

On-site storage of parts, tools, fishing tackle or anything else you need to tote around. Each compartment has a 233 x 122 x 32mm 13 compartment storage box for small items with dividers that can be removed to accommodate larger things. All the hinges and catches are the durable pintle type, not a flimsy bit of folded plastic that will snap after a week. The top tray has a generous 265 x 160 x 65 space for ancillary items and it's finished in a tasteful shade of industrial yellow and black.

• Dimensions: 270(W) x 260(H) x 150(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Drawers	HB6302	\$29.90	\$26.90	\$23.90

TOOL CASES & BOXES

Foam Insert Aluminium Attache Cases

Ideal for Camera, Video and Test Equipment, these cases feature removable 15mm square foam pieces so you can make a hole to the exact size of your valuable equipment. The lid also has a foam insert for complete protection. Cases are lockable and supplied with two keys. Great for wine and glasses also





W x D x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Small 407 x 277 x 95	HB6355	\$58.90	\$52.90	\$46.90
Large 450 x 320 x 145	HB6356	\$99.90	\$89.90	\$79.90

RELATED PRODUCT: CONDUCTIVE FOAM

Non-static reusable sheeting for storing CMOS, IC's, LSI's, etc.

• Will store up to 150 ICs on one sheet

Size 225 x 150mm

• Ideal for lining storage trays to provide antistatic protection

Can be cut with scissors or hobby knife for smaller pieces

Cat.	Qty 1+	Qty 3+	Qty 6+
ZV9998	\$11.90	\$10.70	\$8.20

A52 Freecall order hotline: 0800 452 922 jaycar.co.nz

INSPECTION EQUIPMENT

INSPECTION CAMERAS

Inspection Camera with 2.4" LCD

With a camera diameter of only 9mm, detailed inspection of some very tight spots is possible. Its comfortable grip and forward facing controls make it easy to detect and diagnose the inaccessible. 9mm camera head for up-close visual inspections in tight spaces. Requires 4 x AA batteries.

- Forward facing controlsAdjustable brightness LED illuminator
- Adjustable LCD brightness



	V.
Specifications	QC8710
Sensor	CMOS
Display	2.4" colour LCD
Resolution	480 x 234 pixels
Reach	1m
Attachments	Mirror, hook & pick-up magnet

	Cat.	Qty 1+	Qty 2+	Qty 4 +
Inspection Camera with 2.4" LCD	QC8710	\$179.00	\$160.90	\$142.90
Extension Shaft 2m	QC8702	\$99.90	\$89.90	\$79.90

USB Mini Inspection Camera with 1.5m Flexible Cable

Inspect areas your head or hands simply can't fit into and your limited humans eyes can't see. Ideal for finding dropped screws/bolts, seeing inside car engine bays, checking inside pipes, under grates, up rangehoods, in ceilings, and much more. This unit comes with three brilliant add-ons, a hook, a magnet, and a 45° mirror that can be attached to the end of the camera to help you retrieve those important bits. There are 4 white LEDs at the front of the camera that can have their brightness adjusted with a dial fused onto the cable. With the supplied software you can also capture video and images for playback at a later date. Requires no batteries, just connect to your laptop and start viewing.

• Water resistant camera head and cable

• 4 White LED Lights (brightness adjustable)



r 5mm					
LICR2 ()		5mm			
0302.0	USB2.0				
r 10mm	10mm				
640x480	640x480				
54°	54°				
6cm-infinit	6cm-infinite				
up to 30fps	up to 30fps @ 640x480				
1.5m					
Windows X	P, Vista, 7, 8 &	10			
Cat.	Qty 1+	Qty 2+	Qty 4+		
QC3373	\$58.90	\$52.90	\$49.90		
	r 10mm 640x480 54° 6cm-infinit up to 30fps 1.5m Windows X	r 10mm 640x480 54° 6cm-infinite up to 30fps @ 640x480 1.5m Windows XP, Vista, 7, 8 & Cat. Qty 1+	r 10mm 640x480 54° 6cm-infinite up to 30fps @ 640x480 1.5m Windows XP, Vista, 7, 8 & 10 Cat. Qty 1+ Qty 2+		

Inspection Camera with 4.3" LCD and Record/Snapshot Function

The perfect tool to inspect hard to reach places. The 720p HD camera is just 5.2mm in diameter, IP67 waterproof rated, and features built-in LEDs to illuminate the area you are inspecting.
The hand held 4.3 inch colour TFT LCD screen has a flip function to help adjust the view depending on the angle, digital zoom, and can record the vision or snapshots to an SD card (not included) for you to playback later. You could even plug your SD card into a computer or compatible TV for a better view of what you inspected. Supplied with magnetic pick-up, mirror, and hook clip-on probe attachments.

- 4.3" LCD screen with record function
- Waterproof 720p camera with illumination
- Three probe attachments
- 4 x AA required (not included) • Image zooming 2x variable digital zoom



Specifications	QC8718						
Camera Diameter	5.2mm	5.2mm					
Camera Resolution	1280 x 720	1280 x 720 pixels					
Display	4.3" colour	4.3" colour LCD					
Screen Resolution	480 x 272	480 x 272 pixels					
Reach	0.9m	0.9m					
Memory	SD card (no	SD card (not included)					
Image/Video Format	JPG / AVI	JPG / AVI					
IP Rating	IP67	IP67					
Attachments	Mirror, hoo	Mirror, hook & pick-up magnet					
Dimensions	154(L) x 88	8(H) x 33(W)mr	n				
	Cat.	Qty 1+	Qty 3+	Qty 6+			
Inspection Camera with 4.3" LCD	QC8718	\$239.00	\$209.00	\$189.00			



Own The Way You Pay!

Zip Pay is not currently available in New Zealand



Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!



DIGITAL MULTIMETERS:

A multimeter digital or analogue, but mainly digital these days, is without a doubt your most trusted and widely used piece of test equipment. Indeed, it may only be your ONLY piece of test gear and certainly should be your first investment in test gear.

Most of our range of multimeters carry a LIFETIME GUARANTEE. Not even many of the ridiculously expensive Euro or US made products have a lifetime guarantee, so why pay 2-3 times as much for the similar-performing meter when you don't have to?

We sell more multimeters in Australia and New Zealand than anyone else.

The reason for this, of course, is:

- We stand by our products 7 days a week
- We deliver the best quality for the price
- We have a great range
- And we are going to reveal to you our BIG SECRET

What's the secret? It is this. We don't carry spare parts for our meters! Why? They are so reliable, they hardly ever break.

If, in the unlikely event you had a faulty meter, we would simply give you a new one.

pick me

DIGITAL MULTIMETER SELECTION GUIDE

We've colour coded the quick selection guide below to make it easier for you to pick the meter that best fits your needs. If you are a hobbyist and just starting out, look at any of the Green labelled products. They are both budget friendly and not overly complicated to use. For someone who has used a multimeter before and is looking for broader measurement, the Blue mid-range ones are for you. If you use your multimeter every day for work, then the orange Professional colour range is for you. These meters have all the bells and whistles and the highest ratings out of any of the multimeters we carry.

ENTRY

MID

PRO

-	-	
100	100	
2 10	A 2	7.6
0. V	10 A	100
PEN-	1000	125
	2230	
Comme		























	88 100 kg (8)														(Market)	
	QM1500	QM1517	QM1527	QM1529	QM1321	QM1323	QM1552	QM1446	QM1551	QM1549	QM1020	QM1571	QM1578	QM1594	XC5078	QM1493
Display (Count)	2000	2000	2000	2000	4000	4000	2000	2000	4000	4000	Analogue	4000	6000	4000	2000	4000
Security Category	Cat II 500V	Cat III 600V	Cat III 500V	Cat III 600V	Cat III 1000V	Cat III 600V	Cat IV 600V	Cat III 600V	Cat III 600V	Cat IV 600V	Cat II 1000V	Cat IV 600V	Cat III 1000V	Cat IV 600V	Cat III 600V	Cat III 1000V
Auto-range				•	•	•		•	•	•		•	•	•	•	
True RMS					•		•		•	•		•	•			
VDC	1000V	500V	500V	600V	1000V	600V	1000V	1000V	600V	1000V	1000V	1000V	1000V	250V	600V	1000V
VAC	750V	500V	500V	600V	750V	600V	750V	700V	600V	1000V	1000V	1000V	1000V	250V	600V	750V
ADC	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	200mA	
AAC		-		10A	10A	10A	10A	10A	10A	10A		10A	10A	10A	200mA	
Resistance	2M	2M	2M	20M	40M	40M	200M	20M	40M	40M	20M	40M	60M	20M	20M	400Ω
Capacitance					100mF	100µF	100mF		100µF	100µF		100µF	6000µF	100µF		
Frequency					10MHz	10MHz	10MHz		10MHz	10kHz		10MHz	10kHz	10MHz		
Temperature						760°C	1000°C	1000°C	760°C			760°C	760°C	750°C		
Duty Cycle					•	•			•	•		•	•			
Continuity			•	•	•	•	•	•	•	•	•	•	•	•	•	
Relative Measurement						•	•		•	•		•	•	•		
Min/Max Hold					•		•	Max Hold				•	•		Max Hold	
Non Contact Voltage			•	•	•	•	•		•			•		•		
IP Rated										IP67		IP67	IP67			
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A54 Freecall order hotline: 0800 452 922 jaycar.co.nz

DIGITAL MULTIMETERS

DIGITAL MULTIMETERS CONTINUED

Low Cost DMM PERFECT FIRST METER

AC Rectification

Input Impedance **Special Features**

Battery / Fuse

Dimensions

This is a full featured meter with plug-in 4mm probes AND transistor tester. This is the ideal first multimeter, and will give years of faithful service, in fact, you will only need to replace this meter if you require a unit with very high input impedance.

- 19 Range
- 2000 Count
- Transistor TestDiode Test
- 10A DC Current • Ideal First meter
- Compact Size





Test Lead	s included
Specifications	QM1500
Display	2000 count
Measurement Cat.	Cat II 500V
Basic VDC Accuracy	0.5%
DC Voltage	200mV, 2V, 20V, 200V, 1000V (± 0.5%)
AC Voltage	200V, 750V (Max input 750V RMS) (± 1.2%)
DC Current	2000μA, 20mA, 200mA, 10A (± 1.2%)
AC Current	
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ (± 1.2%)
Capacitance	
Frequency	
Inductance	
Temperature	

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1500	\$11.90	\$10.70	\$9.50

Economy Cat III DMM with Data Hold

Average 1ΜΩ

9V / 500mA/250V (all included)

125(H) x 68(W) x 23(D)mm

A simple and practical multimeter with a luminous backlit display, data hold function, shock-proof durable design. A fully featured multimeter perfect for a student or the enthusiast on a budget. The durable enclosure helps prevent damage from knocks and falls.

- Cat III 600V 2000 Count
- Data Hold
- Square Wave OutputBacklit Display





	И1517			
Specifications QN				
Display 200	00 count			
Measurement Cat. Cat	III 600V			
Basic VDC Accuracy 2%				
DC Voltage 200	mV, 2000mV, 20V, 200V, 5	$600V \pm (1.0\% + 10)$		
AC Voltage 200	$0V,500V \pm (2.0\% + 5)$			
DC Current 200)μΑ, 2000μΑ, 20mA, 200m	nA, 10A ± (2.0% + 5	5)	
AC Current				
Resistance 200)Ω, 2kΩ, 20kΩ, 200kΩ, 2	$M\Omega \pm (2.0\% + 5)$		
Capacitance -				
Frequency -				
Inductance -				
Temperature -				
AC Rectification Ave	rage			
Input Impedance 1M	Ω			
Special Features Dat	a hold, backlight, square w	ave output, buzzer		
Battery / Fuse 9V	F200mA/250V (all include	ed)		
Dimensions 115	6(H) x 65(W) x 30(D)mm			
	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1517	\$19.90	\$17.90	\$15.90



DIGITAL MULTIMETERS CONTINUED



Data Hold DMM with Non Contact AC Voltage Detection

A handy digital multimeter with lots of features at a great price has all the features you would expect including holster and probes. Excellent for those that are ready to take the next step in the world of electronics. It also features a built-in non-contact voltage detector that sounds an internal buzzer and flashes an LED when the DMM is in close proximity to mains power.

- 19 Range
- 2000 CountNon-contact Voltage Detection
- Diode Test
- 10A DC Current
- Data Hold
- Backlight
 Auto Power-off
- Continuity Buzzer



Specifications	QM1527
Display	2000 count
Measurement Cat.	Cat III 500V
Basic VDC Accuracy	0.8%
DC Voltage	200mV, 2V, 20V, 200V, 500V (± 0.8%)
AC Voltage	200V, 500V (±1.8%)
DC Current	200μA, 2mA, 20mA, 200mA, 10A (± 1%)
AC Current	
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ (± 1%)
Capacitance	
Frequency	
Inductance	
Temperature	
AC Rectification	Average
Input Impedance	1ΜΩ
Special Features	Transistor test, Data hold, backlight, non-contact voltage
Battery / Fuse	9V / 200mA/600V (all included)
Dimensions	145(H) x 70(W) x 32(D)mm

This meter include	s QUALITY Test L	.eads	
Cat.	Qty 1+	Qty 3+	Qty 6+
QM1527	\$25.90	\$22.90	\$20.90

Autoranging DMM with Non-Contact Voltage Detection

This Cat III DMM is suitable for voltages up to 600VAC and has 15mm high digits for easy reference. Featuring overload protection and indication, diode check, continuity check, and you won't have to worry about batteries going flat with the auto power off feature. It also features a built-in non-contact voltage detector that sounds an internal buzzer and flashes an LED when the DMM is in close proximity to mains power.

- Cat III 600V
- 2000 count
- Auto rangingNon-contact voltage detection
- Backlight
- Data hold • Low battery warning
- Auto power-off



	DIGITAL MULTIMETER	
Ш	SEL RAN HOLD 🌣	I.
	NCV → MΩ μΑ≂ MA≂ A≂ OFF	
	C €	

Specifications	QM1529
Display	2000 count
Measurement Cat.	Cat III 600V
Basic VDC Accuracy	0.800%
DC Voltage	200mV, 2V, 20V, 200V, 600V (± 0.8%)
AC Voltage	2V, 20V, 200V, 500V, 600V
DC Current	200μA, 2mA, 20mA, 200mA, 2A, 10A (± 3%)
AC Current	200μA, 2mA, 20mA, 200mA, 2A, 10A (± 3%)
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ (± 1.5%)
AC Rectification	Average
Input Impedance	10ΜΩ
Special Features	Data hold, backlight, non-contact voltage
Battery / Fuse	2 × AAA / 200mA/600V (all included)
Dimensions	145(H) × 70(W) × 31(D)mm

This meter include	s QUALITY Test L	.eads		
Cat.	Qty 1+	Qty 3+	Qty 6+	
QM1529	\$34.90	\$30.90	\$27.90	

A56 Freecall order hotline: 0800 452 922 jaycar.co.nz

DIGITAL MULTIMETERS

DIGITAL MULTIMETERS CONTINUED

Autoranging True RMS DMM with Non-Contact AC Detection

Our entry level True RMS DMM with Non-Our entry level True RMS Multimeter featuring autoranging, 1000V CAT Ill rating, Non contact voltage detection. With a sturdy construction and backlit display and quality test leads this is the perfect multimeter for an apprentice or novice hobbyist.

- Cat III 1000V 4000 count Overload protection
- Capacitance
- FrequencyMin/max holdBacklight
- Auto power off



Specifications	QM1321
Display	4000 count
Measurement Cat.	Cat III 1000V
Basic VDC Accuracy	1.5%
DC Voltage	40mV, 400mV, 4000mV, 40V, 400V, 1000V
AC Voltage	40mV, 400mV, 4000mV, 40V, 400V, 750V
DC Current	400μA, 4000μA, 40mA, 400mA, 4A, 10A
AC Current	400μA, 4mA, 40mA, 400mA, 4A, 10A
Resistance	400Ω , $4k\Omega$, $40k\Omega$, $400k\Omega$, $4M\Omega$, $40M\Omega$
Capacitance	10nF, 100nF, 1μF, 10μF, 100μF, 1mF, 10mF, 100mF
Frequency	10Hz, 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz
Inductance	
Temperature	
AC Rectification	True RMS
Input Impedance	10ΜΩ
Special Features	Backlight, min/max hold
Battery / Fuse	9V / 0-5A/1000V 10A/1000V (all included)
Dimensions	200(H) x 92(W) x 60(D)mm

This meter include	s QUALITY Test L	eads	
Cat.	Qty 1+	Qty 3+	
OM1321	\$46.90	\$41.90	

Cat III DMM with Temperature

A budget-priced meter with everything you need - capacitance, temperature and 10A on AC and DC, compact and light weight with rugged moulded case.



Specifications	QM1323
Display	4000 count
Measurement Cat.	Cat III 600V
Basic VDC Accuracy	0.5%
DC Voltage	400mV, 4V, 40V, 400V, 600V (± 0.5%)
AC Voltage	400mV, 4V, 40V, 400V, 600V (± 1.2%)
DC Current	4mA, 40mA, 400mA, 10A (± 2.5%)
AC Current	4mA, 40mA, 400mA, 10A (± 3%)
Resistance	400Ω , $4k\Omega$, $40k\Omega$, $400k\Omega$, $4M\Omega$, $40M\Omega$ (± 1.2%)
Capacitance	4nF, 40nF, 4μF, 40μF, 100μF, (±3%)
Frequency	4kHz, 40kHz, 400kHz, 4000kHz, 10MHz
Temperature	-20° C to $+760^{\circ}$ C (±3%)
AC Rectification	Average
Input Impedance	10ΜΩ
Special Features	Non-contact voltage, duty cycle, backlight
Battery / Fuse	9V / F10A/250V, F500mA/250V (all included)
Dimensions	138(H) × 68(W) × 37 (D)mm

This meter include	s QUALITY Test L	_eads		
Cat.	Qty 1+	Qty 3+	Qty 6+	
QM1323	\$56.90	\$50.90	\$44.90	





LIFETIME GUARANTEE

LIFE

LIFETIME GUARANTEE

DIGITAL MULTIMETERS CONTINUED



Cat IV True RMS Inductance/Capacitance DMM

Powerful frequency measurement with high accuracy, as well as capacitance up to 100mF!

It's a serious choice for serious tasks. Moulded case and the added facility of non-contact voltage detection.

- Cat IV 600V rated
- Backlit LCD
- Frequency
- Relative measurement
- Min / max
- Data hold
- Leads & K-type thermocouple included
- Inductance
- Capacitance

Specifications	QM1552
Display	2000 count
Measurement Cat.	Cat III 1000V / Cat IV 600V
Basic VDC Accuracy	0.5%
DC Voltage	200mV, 2V, 20V, 200V, 1000V (±0.5%)
AC Voltage	200mV, 2V, 20V, 200V, 750V (±0.8%)
DC Current	200μA, 2mA, 20mA, 200mA, 2A, 10A (±1.0%)
AC Current	200μA, 2mA, 20mA, 200mA, 2A, 10A (±1.2%)
Resistance	200Ω , $2k\Omega$, $20k\Omega$, $200k\Omega$, $2M\Omega$, $20M\Omega$, $200M\Omega$ (±0.8%)
Capacitance	10nF - 100mF
Frequency	10Hz, 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz (±0.1%)
Inductance	2mH-20H
Temperature	-20°C to 1000°C / 0°F to 1832°F (±2-3%)
AC Rectification	True RMS
Input Impedance	10ΜΩ
Special Features	Non-contact voltage, back light, data hold, diode test, auto power off
Battery / Fuses	9V / 0.2A/500V, 10A/500V
Dimensions	$200(L) \times 92(W) \times 60(D)mm$

This meter includes QUALITY Test Leads				
	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1552	\$84.90	\$75.90	\$67.90

Automotive DMM with Dwell and Tacho

Perfect for the workshop as an an engine analyser as well as basic DMM. Full dwell angle measurement and tacho, with max / data hold and bright backlit LCD.

- Dwell angle RPM x10
- Data hold
- Max holdContinuity & diode testBacklight
- Auto power off



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Specifications	QM1446
Display	2000 count
Measurement Cat.	Cat II 1000V / Cat III 600V
Basic VDC Accuracy	
DC Voltage	200mV, 2V, 20V, 200V, 1000V (± 0.8%)
AC Voltage	2V, 20V, 200V, 700V (± 1.0%)
DC Current	20mA, 200mA, 2A, 10A (± 1.5%)
AC Current	20mA, 200mA, 2A, 10A (± 1.8%)
Resistance	200Ω , $2k\Omega$, $20k\Omega$, $200k\Omega$, $2M\Omega$, $20M\Omega$ (± 1.0%)
Capacitance	40nF, 400nF, 4μF, 40μF, 100μF (± 3%)
Frequency	5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 5MHz, 10MHz (± 1.2%)
Inductance	
Temperature	-20°C to 1000°C / -4°F to 1832°F (± 5%)
AC Rectification	Average
Input Impedance	10ΜΩ
Special Features	Dwell angle, diode test, continuity test, engine revolutions, data hold, backlight
Battery / Fuses	2 x 1.5V AAA / 0.2A/250V 10A/250V
Dimensions	180(L) x 87(W) x 50(D)mm

This meter include	es QUALITY Test l	-eads	
Cat.	Qty 1+	Qty 3+	Qty 6+
QM1446	\$56.90	\$50.90	\$44.90

Freecall order hotline: 0800 452 922 jaycar.co.nz

DIGITAL MULTIMETERS CONTINUED

Cat III True RMS Autoranging 4000 Count DMM with Temperature & Non-Contact AC Voltage Detection

A powerful true RMS multimeter that includes non-contact voltage testing, backlit LCD, and a carrying pouch. The rear of the unit has a foldout stand so you can sit the meter at a comfortable viewing angle on your desk, workbench or car. Powered by 1 × 9V battery (included).

- Backlit LCD
- Leads & K-type
- Leaus & K-type thermocouple included
 Automatic (-) Negative Polarity Indication
 Data Hold
- 30 Min Auto Power Off
- Carry/Storage Case For DMM & Leads



Specifications	QM1551
Display	4000 count
Measurement Cat.	Cat III 600V
Basic VDC Accuracy	1.5%
DC Voltage	400mV, 4V, 40V, 400V, 600V (± 1.5%)
AC Voltage	400mV, 4V, 40V, 400V, 600V (± 2.0%)
DC Current	400μA, 4000μA, 40mA, 400mA, 10A (± 1.5%)
AC Current	400μA, 4000μA, 40mA, 400mA, 10A (± 1.8%)
Resistance	400Ω , $4k\Omega$, $40k\Omega$, $400k\Omega$, $4M\Omega$, $40M\Omega$ (± 1.2%)
Capacitance	40nF, 400nF, 4μF, 40μF, 100μF (± 3%)
Frequency	5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 5MHz, 10MHz (± 1.2%)
Temperature	-20°C to 760°C/ -4°F to 1400°F (± 3%)
AC Rectification	True RMS
Input Impedance	10ΜΩ
Special Features	Continuity, diode check, blue back lit LCD, non-contact voltage, foldout stand
Battery / Fuse	9V / 500mA/250V, F10A/250V (all included)
Dimensions	138(L) × 68(W) × 37(D)mm

This meter includes QUALITY Test Leads				
	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1551	\$84.90	\$75.90	\$67.90

IP67 True RMS Autoranging Cat IV DMM

This is an excellent true RMS multimeter that features a large, easily read display and carries an IP67 environmental rating. This means the multimeter is waterproof and will not be damaged if accidentally dropped into water or left out in the rain. The meter has data hold and relative measurement capabilities and is housed in a robust, double moulded case. Includes leads, soft carry case and user manual. Double moulded case.

- IP67 Waterproof
- True RMS
- Auto Power-Off
- Backlight
- Data Hold & Relative Function
- Diode Test
- AutorangingAudible Continuity
- 10A Current Range



Specifications	QM1549
Display	4000 count
Measurement Cat.	Cat IV 600V/Cat III 1000V
Basic VDC Accuracy	0.5%
DC Voltage	400mV, 4V, 40V, 400V, 1000V (± 0.5%)
AC Voltage	400mV, 4V, 40V, 400V, 1000V (± 0.8%)
DC Current	400μA, 4000μA, 40mA, 400mA, 10A
AC Current	400μA, 4000μA, 40mA, 400mA, 10A
Resistance	400Ω , $4k\Omega$, $40k\Omega$, $400k\Omega$, $4M\Omega$, $40M\Omega$ (± 0.8%)
Capacitance	4nF, 40nF, 400nF, 4μF, 40μF, 100uF (±3%)
Frequency	Up to 10MHz
Inductance	
Temperature	
AC Rectification	True RMS
Input Impedance	10ΜΩ
Special Features	IP67, data-hold, relative measurement, backlight
Battery / Fuse	9V / F10A/1000V, F500mA/100V (all included)
Dimensions	182(H) x 82(W) x 55(D)mm

This meter include	s QUALITY Test L	eads	
Cat.	Qty 1+	Qty 3+	Qty 6+
QM1549	\$119.00	\$106.90	\$94.90





DIGITAL MULTIMETERS CONTINUED



IP67 True RMS Autoranging Cat IV DMM with Wireless USB Interface

A quality true RMS multimeter with a wireless USB computer interface, non-contact voltage indicator, relative zero and data hold. Double moulded housing is impact resistant and quite durable, and IP67 waterproof rating makes this DMM capable of even the harshest conditions. Wireless USB interface and included logging software allow for computer based live data logging whilst keeping your computer completely isolated and protected.

- IP67 WaterproofTrue RMSWireless USB Interface
- PC Logging SoftwareAuto Power-Off
- BacklightNon-Contact VoltageData Hold
- Diode Test
- AutorangingAudible Continuity10A Current Range
- Double Moulded Case



Specifications	QM1571
Display	4000 count
Measurement Cat.	Cat IV 600V / Cat III 1000V
Basic VDC Accuracy	0.5%
DC Voltage	400mV, 4V, 40V, 400V, 1000V (± 0.5%)
AC Voltage	400mV, 4V, 40V, 400V, 1000V (± 0.8%)
DC Current	400μA, 4000μA, 40mA, 400mA, 10A (± 1.2%)
AC Current	400μA, 4000μA, 40mA, 400mA, 10A (± 1.8%)
Resistance	400Ω , $4k\Omega$, $40k\Omega$, $400k\Omega$, $4M\Omega$, $40M\Omega$ (± 0.8%)
Capacitance	40nF, 400nF, 4μF, 40μF, 100μF (±3%)
Frequency	4Hz, 40Hz, 400Hz, 4kHz, 40kHz, 400kHz, 4MHz, 10MHz (±1.5%)
Inductance	
Temperature	-20°C to +760°C (±3.0%)
AC Rectification	True RMS
Input Impedance	10ΜΩ
Special Features	Wireless USB, IP67, True RMS, non-contact voltage
Battery / Fuse	9V / F10A/1000V, F500mA/100V (all included)
Dimensions	182(H) x 82(W) x 55(D)mm

This meter include	es QUALITY Test L	eads	
Cat.	Qty 1+	Qty 3+	Qty 6+
QM1571	\$159.00	\$142.90	\$126.90

Bluetooth* True RMS Digital Multimeter

A stunning example of multimeter performance, with a rugged waterproof case to boot! Full auto ranging with high accuracy 6000 count display, as well as advanced maths functions. All the usual features like data hold, temperature, capacitance, and a few not-so-common features like duty cycle measurement. Bluetooth* connectivity provides a host of advanced monitoring and data logging functionality without fuss.

- · Bluetooth® wireless
- True RMS
- 6000 count
- Cat IV 600V
 IP67 waterproof case
- Large backlit display
- Duty cycle measurement
- Relative measurement
- Min / max / avg functionsFrequency measurement
- Capacitance
- Full autoranging



🚯 Bluetooth

Specifications	QM1578
Display	6000 count
Measurement Cat.	Cat IV 600V / Cat III 1000V
Basic VDC Accuracy	0.5%
DC Voltage	600mV, 6V, 60V, 600V, 1000V (± 0.9%)
AC Voltage	6V, 60V, 600V, 1000V (± 1.0%)
DC Current	60μA, 6000μA, 60mA, 600mA, 10A (± 1.0%)
AC Current	600μA, 6000μA, 60mA, 600mA, 10A (± 1.0%)
Resistance	600Ω, $6kΩ$, $60kΩ$, $600kΩ$. $6MΩ$, $60MΩ$ (± 1.5%)
Capacitance	60nF, 600nF, 6μF, 600μF, 6000μF (± 5.0%)
Frequency	0.001Hz, 1kHz, 10kHz (± 1.0%)
Inductance	·
Temperature	-20°C to 760°C / -4°F to 1400°F (± 1.0%)
AC Rectification	True RMS
Input Impedance	10ΜΩ
Special Features	True RMS, duty cycle, IP67 case, Bluetooth® connectivity
Battery / Fuse	4xAAA, F800mA/1000V, F10A 1000V,
Dimensions	170(H) x 75(W) x 48(D)mm

This meter includes QUALITY Test Leads					
	Cat.	Qty 1+	Qty 3+	Qty 6+	
	QM1578	\$219.00	\$196.90	\$174.90	



MULTIMETERS

ANALOGUE MULTIMETER

Analogue Multimeter

Digital multimeters have almost completely taken over, but there are those who prefer to use the old analogue meter - it's perhaps still the best way to test a capacitor. This well-made meter has audible continuity and a transistor leakage test, in addition to the normal set of functions. Have a closer look at this meter. It's a beauty.

- Holster Included
- Audible Continuity
- 20KΩ/Volt
- Mirror backed scale to cancel paralax error



LIFETIME GUARANTEE

This is the nicest analogue meter we have ever seen

Specifications	QM1020	
Display	Analogue	
Basic VDC Accuracy	3%	
DC Voltage	100mV, 500mV, 2.5V, 10V, 50V, 250V, 1000V (±3.0%)	1
AC Voltage	10V, 50V, 250V, 1000V (±4.0%)	
DC Current	50μA, 2.5mA, 25mA, 250mA, 10A (±3.0%)	
Resistance	2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ (±3.0%)	
AC Rectification	Average	_
Input Impedance	10ΜΩ	
Special Features	dB, continuity buzzer.	
Dimensions	150(L) x 100(W) x 35(D)mm	
2	130(2) × 100(11) × 33(2)11111	

Cat.	Qty 1+	Qty 3+	Qty 6+
OM1020	\$36.90	\$33.20	\$29.50

This meter includes QUALITY Test Leads



SPECIALITY METERS

Multifunction Environment Meter with DMM

A multi-function environment meter that combines the functions of a sound level meter, light meter, humidity meter and temperature meter. Typical sound applications include checking acoustics of recording studios, auditoriums and professional hi-fi installations. The light and humidity meters are ideal for video photographers, greenhouse and hydroponic setups, etc. Others who should find this meter essential include interior designers, factory and office managers, record and archive keepers, schools, hospitals, laboratories and, of course, universities.

- Sound Level Meter
- Light Level Meter
 Indoor Temperature & Humidity Measurement
- Non Contact Voltage



Specifications	QM1594
Display	4000 count
Measurement Cat.	Cat IV 600V / Cat III 1000V
Basic VDC Accuracy	0.5%
DC Voltage	400mV, 4V, 40V, 400V, 600V (± 1.0-1.5%)
AC Voltage	400mV, 4V, 40V, 400V, 600V (± 1.0-2.0%)
DC Current	400μA, 4000μA, 400mA, 10A (± 1.0-2.0%)
AC Current	400μA, 4000μA, 400mA, 10A (± 1.2-2.0%)
Resistance	400Ω , $4k\Omega$, $40k\Omega$, $400k\Omega$, $4M\Omega$, $40M\Omega$ (± 1.5-2.5%)
Capacitance	50nF, 500nF, 5μF, 50μF, 100μF (±3.0-5.0%)
Frequency	5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 10MHz (±1.5%)
Inductance	
Temperature	-20°C to 750°C (±1.2%)
AC Rectification	Average
Input Impedance	10ΜΩ
Special Features	LUX, SPL, Humidity
Battery / Fuse	9V / F10A/600V, F500mA/600V (all included)
Dimensions	170(H) x 78(W) x 48(D)mm

This meter includes QUALITY Test Leads						
	Cat.	Qty 1+	Qty 3+	Qty 6+		
	QM1594	\$169.00	\$151.90	\$134.90		



SPECIALITY METERS CONTINUED



DMM with Network Cable Tester

This innovative device is ideal for network installers or technicians & will allow the user to easily check cable integrity or measure AC & DC voltage, current, resistance, & continuity det. without needing to carry two separate devices. The unit will check for cable continuity, opencircuits, short-circuits, & cross-connects etc. A remote terminator is included and enables the user to check network cables at a wall jack or patch panel. Supplied with loop back cable, LAN terminator & multimeter leads.

- AutorangingLAN Cable TesterDiode Test
- Multimeter Functions
- Audible Continuity
- Case IncludedLAN Tester Checks Faults & Missed Wired Conductors
- Manual Or Automatic Testing



		1 🐞
Specifications	XC5078	2 👨
Display	2000 count	3 👨
Measurement Cat.	Cat III 600V /Cat II 1000V	4 0
Basic VDC Accuracy	0.5%	5 😀
DC Voltage	200mV, 2V, 20V, 200V, 600V (±0.5%)	6 0
AC Voltage	200mV, 2V, 20V, 200V, 600V (±1.2%)	(· ·
DC Current	200μA, 2mA, 20mA, 200mA (±1.5%)	· ·
AC Current	200μA, 2mA, 20mA, 200mA (±2.0%)	
Resistance	200Ω , $2k\Omega$, $20k\Omega$, $200k\Omega$, $2M\Omega$, $20M\Omega$ (±0.8%)	GND
AC Rectification	Average	GND
Input Impedance	10ΜΩ	00000000
Special Features	Data hold, max hold	CONTRACT OF THE PARTY OF THE PA
Battery / Fuse	9V / 2 x AAA / F200mA/250V (all included)	CONTRACT OF THE PARTY OF THE PA
Dimensions	162(L) x 74.5(W) x 44(D)mm	

This meter includes QUALITY Test Leads							
	Cat.	Qty 1+	Qty 4+	Qty 10+			
	XC5078	\$99.90	\$89.90	\$79.90			

Cat III Insulation Tester/Multimeter

Commonly known as a megger and suitable for high voltage insulation testing up to 4 gigaohms at up to 1000V. It also has AC/DC voltage and low resistance multimeter functions. Moulded storage case and holster included.

- Analogue/Digital DisplayData Hold
- Max/Min
- Moulded Case Backlit LCD
- Auto Power-Off
- Requires 6 X AA Batteries



DIGITECH OM1493 Insulation Tester HOLD M \(\Omega \) DC	
TEST MCCONTINUOUS TEST MCCONTINUOUS TEST MCCONTINUOUS 1000 1000 1000 1000	
1000V 750V 750V 750V 750V 750V	

Specifications	QM1493
Display	4000 count
Measurement Cat.	Cat III 1000V
Basic VDC Accuracy	0.8%
DC Voltage	1000V (± 0.8%)
AC Voltage	750V(± 1.2%)
DC Current	
AC Current	
Resistance	400Ω (± 1.5%)
Capacitance	
Frequency	
Inductance	
Temperature	
AC Rectification	
Input Impedance	
Special Features	Insulation Resistance 4M, 40M, 400M, 4000M (\pm 2%), Continuity Test, Bargraph, Backlit, Data hold, Analogue Bargraph
Battery	6 x AA (included)
Dimensions	200(L) x 92(W) x 50(D)mm

This meter includes QUALITY Test Leads						
	Cat.	Qty 1+	Qty 3+	Qty 6+		
	QM1493	\$289.00	\$259.00	\$229.00		

CLAMP METERS

CAT III 600V True RMS AC and DC Clamp Meters

- True RMS
- Capacitance
- Temperature
- Relative Measurement
- Backlight
- Max. Value
- Data Hold Resistance
- Frequency Measurement
- Non-Contact Voltage Testing
- Input Impedance: 10MΩ
 Basic VDC Accuracy: 0.5%
 72(W) x 194(H) x 35(D)mm
- Carry case included

• 3 x AAA Battery Required

600A TRUE RMS AC

• AC Current - 600A Ideal for basic AC current measurement. Compact unit at a great QM1630



600A TRUE RMS AC/DC

• DC Current - 600A • AC Current - 600A Includes DC current measurement with

high accuracy, from a compact unit. This is a price breakthrough for a DC-current capable clamp meter!



1000A TRUE RMS AC/DC

• DC Current - 1000A

 AC Current - 1000A Fantastic features at an an amazing price. Ultra-high current 1000A AČ and DC current measurement. QM1634









				These met	ters include	QUALITI IE	St Leads				
Specifications	QM	1630			QM1632			QM163	4		
Display	4000	count		4	4000 count			6000 coun	t		
DC Voltage	400n	nV, 4V, 40V, 40	0V, 600V (±0.5%)	4	400mV, 4V, 40\	/, 400V, 600V (±0.5%)	600mV, 6V	, 60V, 600V, 10	000V (±0.5%)	
AC Voltage	400n	400mV, 4V, 40V, 400V, 600V (±0.8%)			400mV, 4V, 40\	/, 400V, 600V (±0.8%)	600mV, 6V	, 60V, 600V, 75	50V (±0.8%)	
DC Current	-				40A, 400A, 600A (±2.5%)		60A, 600A,	1000A(±2.5	%)		
AC Current	40A,	40A, 400A, 600A (±2.5%)			40A, 400A, 600A (±2.5%)		60A, 600A,	60A, 600A, 1000A (±2.5%)			
Resistance	4009	2, 4ΚΩ, 40kΩ	, 400kΩ, 4MΩ, 40N	IΩ (±1.0%)	400Ω, 4KΩ, 4l)kΩ, 400kΩ, 4	4MΩ, 40MΩ (±1.0%)	600Ω, 6kΩ	2, 60kΩ, 600k	Ω, 6ΜΩ, 60Μ	Ω (±1.0%)
Capacitance	10nF (±4.0		0μF, 100μF, 1mF, 10		10nF, 100nF, 1 (±4.0%)	μ F , 10μ F , 100μ	uF, 1mF, 10mF, 100mF	10nF, 100r (±4.0%)	10nF, 100nF, 1μF, 10μF, 100μF, 1mF, 10mF, 100ml (±4.0%)		
Frequency	10Hz (±0.5		, 10kHz, 100kHz, 1M		10Hz. 100Hz, 1 (±0.5%)	kHz, 10kHz, 1	00kHz, 1MHz, 10MHz	10Hz. 100 (±0.5%)	Hz, 1kHz, 10kH	łz, 100kHz, 1N	IHz, 10MHz
Temperature	-20°0	to 1000°C / 0	°F to 1800°F (±5.0%	6) -	20°C to 1000°	C / 0°F to 1800)°F (±5.0%)	-20°C to 10	000°C / 0°F to	1800°F(±5.0%	6)
Cat.	Qty 1+	Qty 3+	Qty 6+	Cat.	Qty 1+	Qty 3+	Qty 6+	Cat.	Qty 1+	Qty 3+	Q ty 6+
QM1630	\$69.90	\$62.90	\$55.90	QM1632	\$99.90	\$89.90	\$79.90	QM1634	\$149.00	\$133.90	\$118.9

MULTIMETER ACCESSORIES

Fast Acting Cartridge Fuses FOR USE IN MULTIMETERS

Used in many well-known multimeters including Listed by Underwriters Laboratories and certified by CSA. Fast acting fuse designed for use in circuits with high AC fault current capacity.

600V 15A (SUITS FLUKE) Spare fuses for selected Digitech DMM: Cat. SF2274 600V 1A (SUITS FLUKE) 600V 500MA M205 Cat. SF2269 Cat. SF2276 Spare ferrule fuses for our IP67 CAT IV rated DMMs: 500V 10A 3AG Cat. SF2272

1000V 500MA 3AG Cat. SF2278 1000V 800MA 3AG Cat. SF2279

Note: Not stocked in all stores, but can be ordered. 1000V 10A Cat. SF2277





Size(mm)	Current	Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
20 x 5.0	0.5A	600V	SF2269	\$4.80	\$4.30	\$3.80
32 x 6.3	0.5A	1000V	SF2278	\$11.90	\$10.70	\$9.50
32 x 6.3	0.8A	1000V	SF2279	\$11.90	\$10.70	\$9.50
35 x 10	1A	600V	SF2276	\$11.90	\$10.90	\$9.90
32 x 6.3	10A	500V	SF2272	\$11.90	\$10.70	\$9.50
38 x 10	10A	1000V	SF2277	\$17.90	\$15.90	\$14.30
38 x 10	15A	600V	SF2274	\$21.90	\$19.30	\$16.90

A63

USB OSCILLOSCOPE

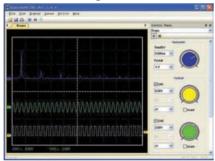
20MHz USB Oscilloscope

This unit does away with more of the hardware and provides a highly accurate interface to allow software to provide the display. It still provides 20MHz bandwidth and high accuracy and physical probe couplings, but takes up a fraction of the bench-space. Use the included software to provide just about all standard oscilloscope functions, and even output waveforms to excel/word files. Convenient function in a small form factor, ideal for the traveling or compact workbench.

- USB interface plug & play
- Automatic setup
 Waveforms can be exported as Excel/Word files
- Spectrum analyser (FFT)
- Cursor measurements







Specifications	QC19	29							
Channels	2								
Input Impedance	1ΜΩ								
Bandwidth	20MHz	20MHz							
Sampling Rate	48M Sa/	48M Sa/Sec							
Input Coupling	DC	DC							
Max Input Voltage	±5V	±5V							
Triggers	Rising e	Rising edge falling edge							
Trigger Modes	Auto, No	Auto, Normal, Single							
Math Operations	Add / su	otract / mul	tiply / divide /	FFT					
Sensitivity	20mV/d	v - 5V/div							
Resolution	8bit								
DC Accuracy	+/- 3%				-				
Operating System	Window	s XP/Vista/7	7/8/10						
Dimensions	206(W)	(123(D) x 3	37(H)mm		YEAR				
Weight	375g								
Accessories	1x10:1/	1x10:1/100:1 probe, software, USB cable WARRANTY							
		Cat.	Qty 1+	Qty 2+	Qty 5+				
20MHz USB Oscilloscope	(2C1929	\$229.00	\$199.00	\$179.00				

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DIGITAL STORAGE OSCILLOSCOPES

100MHz Dual Channel Oscilloscope with Digital Storage

This is a lightweight and compact unit featuring a large 7-inch colour-LCD for detailed readings. It also includes a waveform generator for various testing applications. By connecting to it to your computer via the provided USB cable, you can use the included software for even greater control and data storage options.

- Two channel
- High accuracy
- Powerful TriggerIndependent Waveform generator
- Synchronized signal Output/Input • USB host and device connectivity
- Supports SD card

See website for full specifications.



Specifications	QC1936
Channels	2
Bandwidth	100MHz
Sampling Rate	1G Sa/Sec
Input Coupling	AC / DC / GND
Max Input Voltage	CAT II 300VRMS AC/DC Max
Triggers	Edge, Video, Pulse Width, Pulse, Slope, Over time, Alternative
Trigger Modes	Auto, Normal, Single
DC Accuracy	+/- 3%
Data Record Function	Yes
Memory Depth	40K
DISPLAY	
Туре	7" colour TFT LCD
Resolution	800 x 480
Contrast	Adjustable
Graticule	8 x 16 div

VERTICAL	
Sensitivity	2mV - 5V/div
Resolution	8 bit
Rise time	3.5ns
Mathematical operations	Add / subtract / multiply / divide / FFT
FFT	Hanning, Flattop, Rectangular, Bartlett, Blackman
HORIZONTAL	
Time Base	4ns/div to 40s/div
WAVEFORM GENERATOR	
Frequency range	1Hz-25MHz
Waveforms	Sine, Square, Ramp, Trapezium, AM/FM, Arbitrary, Exponent
Resolution	12 bits
Depth	4KSa
	Cat. Qty 1+ Qty 2+ Qty 5+

001936

Not Sure What To Buy?

Give a Jaycar Gift Card and let them choose!

100MHz Dual Channel Oscilloscope



\$799.00

\$899.00

\$999.00

OSCILLOSCOPE & DMM ACCESSORIES

OSCILLOSCOPE PROBE

Oscilloscope Probe - 10:1 / 1:1

Passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of $1M\Omega$ shunted by 20pF. It may be compensated for use with instruments having an input capacitance of 15 to 35pF. The probe incorporates a three-position slide switch in the head, which selects attenuation of x1, x10 or a ground reference position.

This probe suits all of the oscilloscopes in our range. Supplied with sprung hook, channel identifier clip, ground lead, insulating tip, IC tip and adjusting tool.



POSITION REF

Probe tip grounded via 9M-Ω resistor, oscilloscope input grounded

Specifications	Position x10		Position x1		
Attenuation Ratio	10:1		1:1		
Bandwidth	DC to 100MHz				
Rise Time	3.5ns				
Input Resistance	$10M\Omega$ when used with o scopes with $1M\Omega$ input	scillo-	1MΩ (oscillosco resistance)	ope input	
Input Capacitance	14pF (approx.)				
Compensation Range	10 to 35pF				
Working Voltage	300VDC incl. Peak AC derating with frequency		600V incl. Peak frequency	AC derating with	
Cable Length	1.4m				
Certification	Safety Meets IEC1010-1 (Cat.l			
	Cat.	Qty 1+	Qty 2+	Qty 5+	

QC1902

\$47.90

\$42.90

BENCH VOLTMETER

Analogue Bench Voltmeter 0-15V

A handy bench voltmeter with analogue dial and banana plug connections. Reminiscent of the voltmeters you might see in a school physics lab, this voltmeter gives a quick and easy to read display of volts, and is ideal as a permanent fixture on a test bench, with a 15V maximum reading be suitable for automotive part testing.

- Choose either 3V or 15V scales via
- separate banana plugs 3V scale reads -1V to 3V
- 15V scale reads -5V to 15V
- Zero offset adjust
- Analogue movement
- Internal resistance: 3kΩ (3V scale) 12kΩ (15V scale)

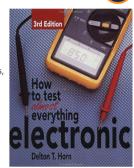


Cat.	Qty 1+	Qty 3+	Qty 6+	
QP5040	\$22.90	\$20.90	\$17.90	

How to Test Almost Everything Electronic

Electronics is a unique science - everything that's going on has to be deduced from visible symptoms and effects with very little that is actually physically observable. The book covers everything from setting up a test and work area to using the most important types of test equipment -multimeters, oscilloscopes, signal generators, signal tracers, capacitance meters and frequency counters. It also covers testing and measurement methods, fault finding without circuit diagrams, component testing and some highly specialised measurement in applications such as audio and TV. A comprehensive volume that should be on every technical bookshelf.

• Softcover 326 pages 190 x 130mm



Cat.	Qty 1+
BM7200	\$64.90

TEST EQUIPMENT ACCESSORIES

Multimeter Carry Case

Hard wearing and good looks make this multimeter case perfect for protecting your valuable multimeter from harm. With foam lining to cushion the meter, it zips up tight guarding it from dirty, dusty conditions.

• Dimensions:

190(L) x 125(W) x 45(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Carry Case	HB6361	\$9.90	\$8.90	\$7.90

Retractable 3m Alligator Test Lead Set

Set of 3 heavy duty leads in red, black, and green terminated with insulated alligator clips in a handy retractable reel. 3m in length, it is ideal for testing and troubleshooting electronic systems by connecting from components in machinery to test equipment or bypassing long wiring to isolate a fault.

- Rating when wound: 6A
- Rating when unwound: 10ALead Length: 3m
- Reel Dimensions 152(Dia.) x 20(W)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
3m long	WT5334	\$36.90	\$33.20	\$29.50

Jumper Lead Kits

STANDARD

\$38.40

Ideal for connecting devices for testing. Alligator clip size is approx 40mm, jaw opening is about 8mm and cable length is approx 400mm.

• 10 leads supplied 2 of each colour

HEAVY DUTY

This kit has large alligator clips and heavy cable. The alligator clips are approximately 50mm long, and have jaw openings of about 10mm. Cable length is approx 300mm.

• 10 leads supplied, 2 of each colour

	Cat.	Qty 1+	Qty 10+	Qty 50+
Standard	WC6010	\$8.90	\$8.00	\$7.10
Heavy Duty	WC6020	\$14.90	\$13.90	\$11.90

High Quality Banana Piggyback Test Leads

A set of factory-moulded piggy-back style banana plugs, each connected by one metre of high-quality, ultra-flexible 500VDC, 12A rated cable.

Contains 2 x black, 2 x red and 1 each of blue, yellow and green leads - 7 in all



	Cat.	Qty 1+	Qty 3+	Qty 6+	
7 x 1m long	WT5326	\$36.90	\$33.20	\$29.50	

TEST & JUMPER LEADS

Parrot™ Clip Leads

The Parrot™ Clip is the only test probe that provides both clip-on hands free contact as with an EZ-hook and normal point contact like a test probe. These feature a sprung hook, which is soldered directly to the lead and housed inside a round metal tube. The grip is performed between the 2 metal parts, which can be used as pincers if required. Probes are supplied with 1m leads terminated to banana plugs and are fully insulated to 1000V.



	Cat.	Qty 1+	Qty 3+	Qty 6+
1m long	WT5330	\$34.90	\$30.90	\$27.90

Multimeter Probe Alligator Clips

Turn your DMM probes into clips! These alligator clips simply push onto the end of the test probes!

- Length approximately 55mm
- Jaw opening 8mm
- Sold as a pair 1 red, 1 black

	Cat.	Qty 1+	Qty 3+	Qty 6 +
Pair	WT5220	\$5.80	\$5.20	\$4.60

16 Piece Test Lead Set

Consists of two leads with screw sockets on each end. Attachments screw in.

All colour coded red and black.

- 4 x alligator clips
- 4 x 2mm pin tips
- 4 x banana plugs
- 2 x spade lugs



	Cat.	Qty 1+	Qty 3+	Qty 6+
16 Piece	WT5218	\$16.90	\$14.90	\$13.90

Multimeter Test Probes Shrouded Type

• Banana plugs are right angle with 15mm covered pin

• Alligator clips included

Shrouded Type



2mm Test Probes for Multimeters



Multimeter Test Probes

With 4mm right angle unshrouded banana plugs.

• Suits QM1500, etc.



CAT IV Test Lead Set

CAT IV test lead set with straight banana plugs.



	Cat.	Qty 1+	Qty 3+	Qty 6+
air	WT5333	\$15.90	\$13.90	\$12.90

Professional Cat IV Multimeter Probes

Professional multimeter test probes have always been an expensive choice so what we've done is work closely with a manufacturer to get great quality probes at a genuinely affordable price! To start with, we've made them extra long; they're 1200mm long so you don't drag your meter across your workbench as you move around a circuit and makes them perfect for bench top meters. They're Cat IV rated for safety, feature finger guards and can top meters. They re Cat IV rated for safety, feature finger guards and can handle 20A of current. The best part is the actual probes themselves. To start with, the probes are suitable for inserting into a standard 4mm banana socket using the same spring hold system. Also included are probe covers which not only stop the sharp points being dangerous, they allow only just the tip to be exposed for delicate work where you can be in danger of making a short between two connections which are close together. Probes suitable for inserting (and holding) in 4mm banana sockets. Probe safety cover with slot for delicate work. Comfortable and ergonomic grip.

• Extra long 1200mm

- 600V Cat IV rated
- 20A current rating
- Sold as a pair.



Pair WT5338 \$29.90 \$26.90 \$23.90

EZ Hook Test Clips - 40mm

Suitable for ICs, transistors, PC pins, etc. Push syringe action. Hirshmann style.



	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	HM3037	\$2.50	\$1.80	\$1.60
Red	HM3036	\$2.50	\$1.80	\$1.60

IC Test Clips - 57mm

These have a syringe action and are ideal for working with small components.

• Length: 57mm



		Cat.	Qty 1+	Qty 10+	Qty 50+
ı	Black	HM3041	\$2.50	\$2.00	\$1.80
	Red	HM3040	\$2.50	\$2.00	\$1.80

Test Leads

Banana plugs to clip. There are many situations where multimeter probes are difficult to use.



	Cat.	Qty 1+	Qty 3+	Qty 6+
700mm long	WT5320	\$7.90	\$7.10	\$6.30

Alligator Clips

• Sold as a pair

• 1 x red & 1 x black Qty 10+ Qty 50+ Cat. Qty 1+ HM3020 26mm Pair \$2.00 \$1.80 \$1.60 32mm Pair HM3022 \$2.60 \$2.30 \$2.05

Alligator Clips with Screw

No soldering required. Large alligator clips with plastic finger grips and a screw for connection

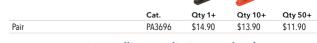
- Length: 55mm
- Max jaw opening 12mm

	Cat.	Qty 1+	Qty 10+	Qty 50+
Pair	HM3025	\$3.40	\$3.05	\$2.70

Cat III Rated Banana Alligator Clips

Takes standard and fully insulated 4mm banana plugs and turns them into an alligator clip. CATIII rated.

• Sold as a pair, red and black.



p.A65 - alligator clip jumper leads •

TEMPERATURE MEASUREMENT

NON-CONTACT THERMOMETERS

Economy

Non-Contact Thermometer

A safe way to measure temperatures in hard to reach places, and hot or hazardous areas. It is compact and easy to use - simply aim the built-in laser at the target area and read the temperature between -50°C to 500°C from the backlit LCD screen. Features include a 12:1 distance to spot ratio, rapid 500ms detection, max/min, data hold, and auto-power off functions.

- -50°C to 500°C
- Rapid detection function
- Built-in laser pointer
- 12:1 Distance to spot ratio
 Automatic data hold





Special Features	Data Hold & Min I	Max Function		
Battery	9V			
Dimensions	96(W) x 131(H) x 35(D)mm			
	Cat.	Qty 1+	Qty 3+	Qty 6+
12:1 distance to spot ratio	QM7410	\$56.90	\$50.90	\$44.90

Pro High Temperature Non-Contact Thermometer with K-Type Probe Support and USB

A professional non-contact thermometer with dual laser pointers to provide fast, easy and accurate readings of most surface temperatures between -50°C to 1650°C! The impressive 30:1 distance to spot ratio measures smaller surface areas at greater distances, with a 1% accuracy and a rapid 150ms sampling time. Features include automatic data hold & trigger lock, min, max, difference, average temperature displays, high/low alarms, and digitally adjustable emissivity (0.1 to 1.0) for more accurate readings of different materials. Provision for a K-Type thermocouple (supplied) enables you to take direct measurements up to 1370°C and a USB port lets you transmit the data with a PC for further analysis. Supplied with a tripod, K-type probe, USB cable and carry case. Rapid detection function

- Built-in dual laser pointer
- 30:1 Distance to spot ratio
- Automatic Data Hold
- Emissivity Digitally adjustable from 0.10 to 1.0
 MAX, MIN, AVG, DIF temperature displays
- Backlight LCD display
- Trigger lockSet high and low alarmUSB Interface
- Class 2 laser product

Specifications	QM7430
Display	4 digits
Optical Resolution	30:1
Temperature	-50°C to 1650°C
Emissive	0.1 + 1.0
Sampling Rate	150ms
Special Features	USB Interface & K-Type Thermocoupler Support
Battery	9V
Dimensions	155(W) x 204(L) x 53(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+	
30:1 distance to spot ratio	QM7430	\$289.00	\$259.00	\$229.00	

BODY THERMOMETERS

Non Contact Body Thermometer

Get fast and accurate temperature readouts via the infrared sensor without needing to come in contact with the source. Simply press the measure button and the result will be displayed on the large backlit LCD display in less than a second. Unit can switch between object and body to allow you to measure liquids, such as baby milk, surfaces and even air temperature. Automatic fever alarm above 37.3°C, switchable between Centigrade and Fahrenheit, accurate to +/-0.2°C.

- 34°C 43°C temperature range (Body mode)
- 0°C 100°C temperature range (Object mode)
- Automatic fever alarm above 37.3°C



Body temperature mode

QM7422			
Body mode: 34°C to 43°C Object mode: 0°C to 100°C			
+/- 0.2°C			
1-5cm			
Automatic fever alarm above 37.3°C			
2 x AAA required			
138(L) x 95(W) x 40(H)mm			
Cat.	Qty 1+	Qty 3+	Qty 6+
QM7422	\$84.90	\$75.90	\$67.90
	Object mode: 0°C +/- 0.2°C 1-5cm Automatic fever a 2 x AAA required 138(L) x 95(W) x -	Object mode: 0°C to 100°C +/- 0.2°C 1-5cm Automatic fever alarm above 37.3° 2 x AAA required 138(L) x 95(W) x 40(H)mm Cat. Qty 1+	Object mode: 0°C to 100°C +/- 0.2°C 1-5cm Automatic fever alarm above 37.3°C 2 x AAA required 138(L) x 95(W) x 40(H)mm Cat. Qty 1+ Qty 3+

MINI NON-CONTACT THERMOMETER

Mini Non-Contact IR IP67 Thermometer

Ultra compact, non-contact thermometer. IP67 rated so is ideal for industrial and lab applications. LCD readout gives temperature in Celsius or Fahrenheit.

• Batteries & lanyard included



	Cat.	Qty 1+	Qty 3+	Qty 6+
1:1 distance to spot ratio	QM7218	\$58.90	\$52.90	\$46.90

DISTANCE TO SPOT RATIO EXPLAINED

Distance to spot ratio is the ratio of the distance of the Thermometer to the object being measured, and the diameter of the temperature measurement area. The larger the ratio number the better the resolution.



HANDHELD THERMOMETERS & THERMOCOUPLES

Digital Thermometer with K-Type Thermocouple

A handy pocket-size digital thermometer, suitable for the lab, workshop or in the field. It features an excellent measurement range from -50°C to 750°C and a hold function to lock the reading on the display.

QM1602

2000 count

2.5Hz

Data hold

- LCD
- Pocket Size
- Wide Temperature Range
- Thermocouples included



Specifications

Temperature

Sampling Rate

Special Features

Display

Battery



DIGITECH

Difficusions	120(L) X O I(W) X 23(D)II	IIII			
	Cat.	Qty 1+	Qty 3+	Qty 6+	
	QM1602	\$52.90	\$46.90	\$41.90	
				., .	

Thermocouple Thermometer with 2 Inputs

Fast response and laboratory accuracy, works with K-type thermocouples and offers 0.1° or 1° user-selectable resolution over the entire measurement range. You can monitor two separate temperatures or use the differential function to compare them.

- Auto power off & backlit LCD
- Max and hold function
- Celsius & Fahrenheit
- Holster included • Thermocouples included



Specifications QM1601 Display 2000 count

-50°C to 1300°C (-58°F to 2000°F) Temperature **Special Features** Back light, data hold, max hold

1 x 9V Battery 162(L) x 76(W) x 39(D)mm Dimensions

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1601	\$119.00	\$106.90	\$94.90

Probe K Type Thermocouple

This plug in thermocouple probe allows you to measure external temperature readings on DMMs. It will measure from below minus 50°C to above 250°C depending on the DMM it is used with.

• Suitable for gas and liquid, both with good accuracy of 0.75%.



Wire K Type Thermocouple with Twin Banana Plugs

Similar to our other thermocouples, this one is fitted with banana plug terminations but does not have a "probe" assembly. The thermocouple junction will measure over a wide range of temperature but this will depend on the DMM.

OM1284

Cat

• Typical thermocouple measurement range from as low as -50°C to over 1200°C



\$14.30

\$12.70

\$15.90

Wire K Type Thermocouple

This is essentially the same as the probe type shown on this page, except that the sensor is mounted on the end of the cable - no probe. Suits digital multimeters.

• Measures from below minus 40°C to over 1200°C, actual range depends on the DMM it's used with



USB TEMPERATURE / HUMIDITY DATALOGGERS

A must for anyone involved with food preparation, archiving or storage or applications where storage of environment information is important. These USB dataloggers log temperature and humidity readings and store them in internal memory for later download to a PC. The measurement interval is adjustable - you simply set up the recording parameters then download the data when you need it. The data is recorded at the prescribed intervals and will alert you if preset min/max levels are exceeded. Countless applications including greenhouses, museums, warehouses, container storage, photography, archives, food preparation etc.

Direct Plug In Type

- 32,000 sample memory (16,000 temp, 16,000 humidity)
- · Easy USB interface
- Mounting bracket included
- Software compatible with Windows 2000, XP, Vista



	Cat.	Qty 1+	Qty 3+	Qty 6+	
Dimensions	100(L) x 22(W) x 20(H	100(L) x 22(W) x 20(H)mm			
Battery Life	5 sec rate: 12 months	, 10 sec rate: 2.	.5 years		
Memory	32,000 samples			YEAR	
Resolution	Humidity 0.1%, Temp	erature 0.1°C			
Accuracy	Humidity ±3%, Temp	Humidity ±3%, Temperature ±1%			
Range	-40°C to 70°C (-40°F t	o 158°F), 0 - 10	00% relative hu	ımidity	
Specifications	QP6013				

Direct Plug In Type QP6013 \$149.00 \$134 90 \$119 90

USB / LCD Readout Type

- 32,700 sample memory
- Adjustable measurement cycle Analysis software included
- Software compatible
- with Windows 2000, XP, Vista



Specifications	QP6014		Thingston	ure & Numickly Datalogger
Range	-40°C to 70°C (-40°F to 0 - 100% relative hum	158°F), idity	Temp %R	H WAXAN
Accuracy	Humidity ±3%, Tempe	erature ±1%		emp45 to 70°C -40 to 158°F
Resolution	Humidity 0.1%, Tempe	erature 1°C		
Memory	32,700 samples			
Measurement Cycle	1s - 24h			In .
Dimensions	95(L) x 50(W) x 32(H)r	nm		Sing
	Cat.	Qty 1+	Qty 3+	Qty 6+

	Cat.	Qty 1+	Qty 3+	Qty 6+
USB / LCD Readout Type	QP6014	\$199.00	\$178.90	\$158.90

PROBE THERMOMETERS

LCD Probe Thermometer

Multi-purpose digital thermometer for the kitchen, lab, factory, workshop or barbeque. It measures in Celsius and Fahrenheit and fits in a pocket.

- Stainless steel probe
- Pocket clip



Digital Stem Thermometer

Endless applications such as food processing, laboratory work, photography, home brewing etc. This digital thermometer features fast response, min/max memory, data hold and automatic shut-off after 10 minutes. The probe is stainless steel, so it will never corrode, the body is splashproof and it will never need calibration.

• Requires LR44 battery (included) / 5000 hour battery life



A68 Freecall order hotline: 0800 452 922 jaycar.co.nz

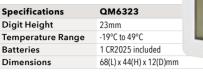
TEMPERATURE MEASUREMENT

FRIDGE THERMOMETERS

Digital Fridge/Freezer LCD Mini Thermometer

See at a glance that your favourite food or beverage is at the correct temperature in the fridge or freezer. Hang it from a wire shelf, stand on a shelf or attach to a metal surface with the built-in magnet.

a metal surface with the built-in magnet. Stylish design with white face and silver colour surround. Selectable °C & °F.





WARRANTY

WARRANTY

Cat.	Qty 1+	Qty 3+	Q ty 6+
QM6323	\$13.90	\$12.90	\$10.90

Digital Thermometer for Fridge or Freezer

Simply attach the sensor in the fridge or freezer and the thermometer on the outside with the attached magnets or enclosed hook and loop strip. Set your preferred reading of °C or °F and

your preferred reading of °C or °F and then set the minimum and maximum temperatures with the alarm. If the fridge goes below or above these set temperatures the alarm will sound until you manually turn it off to investigate the problem. 1m cable.

 Shows room temperature at the touch of a button

the touch of a button	TH
Specifications	QM7209
Room Temp Range	-10°C to 50°C
Fridge Temp Range	-50°C to 70°C
Display Size	26(W) x 13(H)mm
Requires	1 x AAA battery (supplied
Dimensions	67(W) x 39(H) x 15(D)m



IDGE | FREEZER IERMOMETER

Dual Display Digital Thermometer for Fridge Freezer with Dual Probes

This Dual display Fridge/Freezer Thermometer will help keep food fresh and accurately stored in all zones of the fridge or freezer. The bold LCD screen provides an instant reading in either Celsius or Fahrenheit, in two zones of the fridge/freezer. Simply place each suction cup probe in the required zone, and then place the reading screen in a handy location, for instant reading of your food storage temperature. The dual digital thermometer will let you set the maximum and minimum temperatures you require and sound an alarm when it deviates from the range. This clever fridge/freezer thermometer will take the guesswork out

of storing your food at the correct temperature and give you peace of mind that your food is fresh and ready to eat.



Specifications	QM7322
Display	90(W) x 16(H)mm
Temperature Range	-40°C to 70°C
Power	2 x AAA batteries (included)
Cable Length	1m
Dimensions / Weight	135(W) x 45(H) x 23(D)mm, 85g

	y 6+
QM7322 \$46.90 \$41.90 \$36	.90

DESKTOP THERMOMETERS

Indoor Desk Thermometer

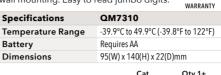
Handy desk or table-top thermometer. Measures degrees Celsius with high and low memory. Tilting bail for standing on desk.

Battery included

Specifications	QM7316			
Range	-20°C to 50°C			
Dimensions	64(W) x 72(H) x 18(D)	64(W) x 72(H) x 18(D)mm		
	Cat.	Qty 1+	Qty 3+	Qty 6+
Indoor Version	QM7316	\$8.90	\$8.00	\$7.10

Jumbo Display In/Out Thermometer

One display that shows both the inside and outside temperatures simultaneously. It will also record the minimum and maximum temperatures. The outside temperature sensor is waterproof and is on a 3m cable. It also has a tilting bail for standing as well as a keyhole for wall mounting. Easy to read jumbo digits.





Jumbo Display Thermometer / Hygrometer

Displays the temperature and humidity together on the one huge LCD display. It also has a min / max function (memory).





Humidity	10 - 99% +/-5%	
Temperature Range	-10°C to 60°C (14°F to 140°F)	
Battery	Requires AAA	
Dimensions	135(H) x 100(W) x 22(D)mm	
		_

	Cat.	Qty 1+	Qty 3+	Qty 6+
Jumbo Display	QM7312	\$31.90	\$27.90	\$24.90

Wireless In/Out LCD Thermometer

Keep an eye on the outdoor and indoor temperature with ease. This thermometer is comprised of two parts. An LCD display/receiver to keep inside and a wireless outdoor temperature sensor which transmits the outdoor temperature back to the display. Great for monitoring computer server rooms, wine cellars, effectiveness of housing insulation,

or for simply wanting to know the differentiation in temperature.

 No need to expose the LCD to the elements

S

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D

Specifications



LCD to the elements	WARRANTY		OUT
pecifications	XC0321	===	2 3
emperature Range	Indoor: 0°C to 60°C Outdoor: -40°C to 60°C	=	IN
Batteries	Display: Requires 2 x AA Remote: Requires 2 x AA	A A	CO
ransmission Freq.	433.92MHz		
Dimensions	Receiver: 86(H) x 57(W) Sensor: 68(H) x 50(W) x	x 18(D)mm, 21(D)mm	

	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer	XC0321	\$22.90	\$20.90	\$17.90

Wireless In/Out Thermometer/Hygrometer

An advanced thermometer/hygrometer capable of measuring indoor and outdoor temperature, as well as relative humidity. The large easy to read LCD acts as a receiver unit for a separate outdoor sensor unit. It will record maximum and minimum temperatures for quick referral and conveniently displays the time of day. Ideal for temperature or humidity sensitive environments such as museums,

greenhouses, or to check if your home and office is too dry or moisture laden. The LCD receiver unit is capable of receiving information from up to 3 sensor units, which are available separately (Cat. XCO324).



XC0322	SET	CH/+	DOMAY
Indoor: 0°C to 60°C Remote: -45°C to 65°C			
1% to 99%			
433.92MHz			
Up to 100m open air			
Receiver: Requires 2 x	AA, Remote: I	Requires 3 x AAA	YEAR
		n	WARRANTY
Cat.	Qty 1+	Qty 3+	Qty 6+
	Indoor: 0°C to 60°C Remote: -45°C to 65°C 1% to 99% 433.92MHz Up to 100m open air Receiver: Requires 2 x. Receiver: 95(H) x 114(Sensor: 51(H) x 63(W)	Indoor: 0°C to 60°C Remote: -45°C to 65°C 1% to 99% 433.92MHz Up to 100m open air Receiver: Requires 2 x AA, Remote: 1 Receiver: 95(H) x 114(W) x 25(D)mr Sensor: 51(H) x 63(W) x 25(D)mm	Indoor: 0°C to 60°C Remote: -45°C to 65°C 1% to 99% 433.92MHz Up to 100m open air Receiver: Requires 2 x AA, Remote: Requires 3 x AAA Receiver: 95(H) x 114(W) x 25(D)mm Sensor: 51(H) x 63(W) x 25(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer/Hygrometer	XC0322	\$46.90	\$41.90	\$36.90
Extra Sensor	XC0324	\$29.90	\$26.90	\$23.90

ENVIRONMENT MEASUREMENT

Pocket Moisture Meter - Wood, Building, Etc.

This is an intelligent wood moisture meter suitable for measuring water content in building materials and wooden fibre articles such as wooden and bamboo objects, cotton, paper etc. Simple to use, the unit comes with two-pin electrode which enables you to check thick wood at the core without having to cut it open. A must have for home/building inspectors, flooring specialist and

- general contractors Carry case included.
- Backlit digital LCD screen
- Ergonomically designed with comfortable finger grip
- Low power consumption
- Auto power off



QP2310	,			
8mm				
Wood: 6 to 44%, Material: 0.2 to 2.0%				
Wood +/-2%, Material: +/-0.2%				
0°C to 50°C				
0 to +85%RH				
4 x LR44 (included)				
96(H) x 40(W) x 20(D)mm, 83g				
Cat Oty 1+ Oty 3+ Oty 6+				
	8mm Wood: 6 to 44%, Material: 0.2 to 2.0% Wood +/-2%, Material: +/-0.2% 0°C to 50°C 0 to +85%RH 4 x LR44 (included)			

OP2310

\$46.90

\$41 90

\$36.90

Hand Held pH Meter

Pocket Moisture Meter

A simple and accurate device for checking pH levels A simple and accurate device for checking pri levels in water. The unit is equally valuable for keeping your fish tank at the proper pH level for optimum fish health or checking your swimming pool for the right balance. The meter is simple to use and the large liquid crystal display gives clear and precise readings that are much more accurate than messy chemicals. The unit has an extendable probe that can be adjusted to suit each application. The meter is supplied with a 9 volt battery, a bottle of pH 7.0 buffer solution and calibration tool.



		000000000		
Specifications	QM1670			
Range	1 - 14 pH	7 7 7 7		
Resolution	0.1 pH			1
Accuracy	±0.2 %			
Operating Temperature	0°C to 50°C	2		
Weight	120g			
Dimensions	40(W) x 15	8(H) x 34(D)n	ım	
	Cat.	Qty 1+	Qty 3+	Qty 6+
Hand Held pH Meter	QM1670	\$84.90	\$75.90	\$67.90
Buffer Solution (50ml)	QM1671	\$11.90	\$10.90	\$9.90

Electronic LPG Gas Level Monitor

The clever unit attaches to your steel LPG bottle. It detects the gas in your bottle, (typically 9kg) and gives a musical alarm when the gas in your bottle is low. Don't run out of gas halfway thru a barbie ever again! Works on any steel LPG cylinder, virtually no installation.

- Uses 2 x AA batteries (supplied)
- Magnetically attaches to cvlinder





Cat.	Qty 1+	Qty 3+	Qty 6+
QM1662	\$18.90	\$16.90	\$14.90

Electronic LPG Gas Level Monitor

Gas leaks can be incredibly dangerous, even small ones. Run a quick check over your campervan, caravan or gas powered devices to make sure all outlets are safely sealed. Hold the power button for a few seconds and then place the detector near the suspected leak and visual/audible warnings will sound if the leak is bad, moderate or safe. Red (Hi), yellow (Lo), and green (safe) LEDs denote the severity of the leak.

- Measurement ranges: 0-10,000 ppm
- Power on: Press and hold for 3 seconds
- Auto power off: Approximately 3 minutes
- Sensor detects butane, propane, acetylene, and methane (natural gas)

Indications include:

Green: Power on with short beep / safe with no alarm Yellow: Lo alarm with short beep >2000ppm (0.2%) of methane (natural gas) detected

Hi alarm with long beep >4000ppm (0.4%) of methane (natural gas) detected



Wind Speed Anemometer/Thermometer

Capable of measuring wind/airflow parameters at the same time as monitoring temperature.

- Metres/sec; km/hr; feet/min; miles-per-hour; knots
- Cubic metres/minute; cubic feet/minute
- Air temp, 0°C to 50°C (0.1°C resolution)
- Auto power off
- Vane impeller ball bearing mounted
- 1m vane probe lead





	Cat.	Qty 1+	Qty 3+	Qty 6+
Anemometer	QM1646	\$169.00	\$151.90	\$134.90

Handheld Anemometer and Altimeter

Provides wind speed, wind chill, temperature, barometric, and altitude information for any outdoor activity. The main display can be toggled between wind speed or altitude, with the sub display showing either temperature/wind chill, or barometric pressure and temperature. The feature-packed device is small enough to fit in your pocket and can be used be used hands-free with the included mini tripod.

- Current, max or average wind speed
- Temperature and wind chill
- Relative, max or absolute altitude un to 3000m Barometric display
- Beaufort wind scale
- LED backlight







	Cat.	Qty 1+	Qty 3+	Qty 6+	
Anemometer with Altimeter	QM1645	\$94.90	\$84.90	\$75.90	

LIGHT METERS & ULTRASONIC CLEANERS

LIGHT METERS

Digital Light Meter

A handy digital light meter for photography, lab work, architectural, engineering and construction applications. It includes an integrated stand and will measure measure incident light in 3 ranges: 0.01 to 200, 200 to 2,000, 2,000 to 20,000 and 20,000 to 50,000 lux.

The photo detector is wired on a curly cord which extends to 1 metre, allowing the user to take light measurements at the optimum position. Sensor cover and carry case included.

- 3.5 Digit
- Separate Photo Detector incident light in 4 ranges.



Specifications	QM1587
Display	2000 count
Range	200, 2000, 20000, 50000 lux/Fc
A	±5%±10d (<10,000 lux)
Accuracy	±10%±10d (<10,000 lux)
Resolution	0.1 lux/Fc
Sampling Rate	1.5Hz
Special Features	Data hold, max hold
Battery	1 x A23 (12V)
Dimensions	188(L) x 64(W) x 24.5(D)mm
Photo Detector	115(L) x 60(W) x 27(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1587	\$74.90	\$67.40	\$59.90

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Professional Digital Light Meter

Light has an enormous impact on the atmosphere created in a room, office, foyer, retail shop, reception areas, or on film and photography. In some cases, a professionally lit servicescape may be the difference between business success and failure. Achieving the right amount of light is a fine art, and the help of a professional tool should be sought to ensure minimum lighting level standards are achieved. This professional light meter is brimming with features that should be part of every lighting technician's arsenal. It uses photopic spectral sensitivity which closely mimics the response of the human eye to changes in light. It is extremely accurate with a rapid response and can store min and max values for easy

comparisons. Measurement can be switched between LUX and EC (foot candles) and a data hold function is included for pausing the reading. All this is output to an easy to read backlit LCD. A carry plastic case with handle is included for easy and safe transportation.

- Data Hold
- Relative Mode
- Auto Zeroing
 Long-Life Silicon Photo Diode
- Selectable Lux Or FC Scale
- Auto Power Off: 30 Minutes
- Max and Min







WARRANTY	
Specifications	QM1584
Display	4,000 count with 41 segment bargraph
Max Measurement	400,000 lux / 40.00 kFc
Spectral Response	CIE Photopic
Spectral Accuracy	CIE VA function f1 <=6%
Cosine Response	f2 <= 2%
Accuracy	+/-5% +/-10d (<10,000 lux),
Accuracy	+/-10% +/-10d (>10000 lux)
Accuracy For C.I.E Standard Illuminance	A(2856K)
Sampling Rate	1.5 times/second
	C-t Ot 1 Ot 3: Ot 6:

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1584	\$209.00	\$187.90	\$166.90

ULTRASONIC CLEANERS

40W Ultrasonic Cleaner

An effective way to clean your jewellery, watch bands, fountain pens, dentures, razor heads, printer heads, coins, eye glases, small silverware,

and small machined parts. Mains powered and easy to use. Fill the 400ml bowl with water, add a mild cleaning solution, then press the power button to start the 3 minute timer. Intended for domestic use

 Dimensions: 188(L) x 97(H) x 85(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
400ml	YH5414	\$99.90	\$89.90	\$79.90

Electronic Parts Cleaning Solution

The ready to use solution can be safely used in ultrasonic tanks for various applications including: jewellery, metal parts degreasing, removing flux and cleaning sensitive electronic parts. Appropriate for both static and ultrasonic cleaner use.

- Non-flammable
- Water-based (Biodegradable)



80W Ultrasonic Cleaner

Designed to effectively clean your jewellery, watch bands, fountain pens, dentures, razor heads, printer heads, coins, eye glasses, small silverware, and small machined parts. It has a generous size 1.8 litre stainless steel bowl that illuminates blue during operation, and five panel mounted push buttons for easy operation. Features include five timer settings from 90 seconds to 8 minutes, LED display, strong or normal power settings, and a defoam setting that cycles the cleaner for 5 seconds with 3 second intervals. Mains powered.

• Dimensions: 258(L) x 165(H) x 160(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
1.8L	YH5416	\$169.00	\$151.90	\$134.90

SOUND LEVEL METERS

Micro Sound Level Meter

With a range of 40 - 130dB, this little meter is ideal for environmental, safety and sound system testing. It has a fast response time for transient measurements and is A-weighted for the frequency range of human hearing.

- Very compact size
- Min / max hold
- Backlit



Compact Digital Sound Level Meter

Featuring a wide dynamic range from 30 to 130dB, it can measure both A and C weightings to get the right response for the human ear and can have fast or slow responses to get an "ambient" reading or a short noise. Includes data hold and min/max functions, as well as tripod mount for prolonged use. Great for car audio installers, clubs and PA.

- Supplied with carry case and wind sock.
- Compact sizeData hold
- Backlit
- · Carry case



Digital for an analogue price!

Specifications	QM1591				
Display	4 digit				
Range	40 - 130dB (±3.0dB)			
Frequency Range	31.5Hz to 8kHz				
Weighting	A weighted				
Special Features	Pocket sized, min / max hold, back light				
Battery	1 x 9V (included				
Dimensions	150(L) x 55(W) x 32(D)mm				
Cat.	Qty 1+	Qty 3+	Qty 6+		
QM1591	\$59.90	\$53.90	\$47.90		

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Specifications	QM1589	•			
Display	4 digit				
Range	30-130dB(±1.5dB)			
Frequency Range	31.5Hz to 8kHz				
Weighting	AC selectable weighting				
Response	Fast / slow selectable				
Special Features	Max hold, data hold, back light				
Battery	1 x 9V				
Dimensions	210(L) x 55(W) x 32(D)mm				
Cat.	Qty 1+	Qty 3+	Qty 6+		
OM1E00	¢150 00	¢1/2 00	¢126.00		

\$159.00 \$142.90 \$126.90

Pro Sound Level Meter with Calibrator

This professional grade sound level meter is designed for all kinds of environmental sound measurement projects. It features a wide dynamic range from 30dB to 130dB, fast (125ms) or slow (1s) time weighting to get an ambient reading or a short noise, minimum, maximum and data hold values, and A & C weightings to get the right response for the human ear. Other features include backlit display with date and time, data logger function, analogue AC/DC outputs for connection to a to your PC for further analysis. Includes an Alarm function which can be set to Over and Under thresholds. Great for car audio installers, clubs and PA. Tripod and mount included.

- MAX & MIN measurements
- Over & Under range display
- A & C WeightingFAST (125ms) & SLOW (1s) response
- Data logger
 IEC61672-1CLASS2 Standard
- 32,700 Memories1/2 inch electret condenser microphone
- Analogue Output
- USB Connectivity

Level Ranges:

- Low: 30dB~80dB
- Med: 50dB~100dB
 Hi: 80dB~130dB
- Auto: 30dB~130dB

Analogue Output:

• AC/DC outputs from earphone outlet (AC=1VRMS, DC=10mV/ dB)

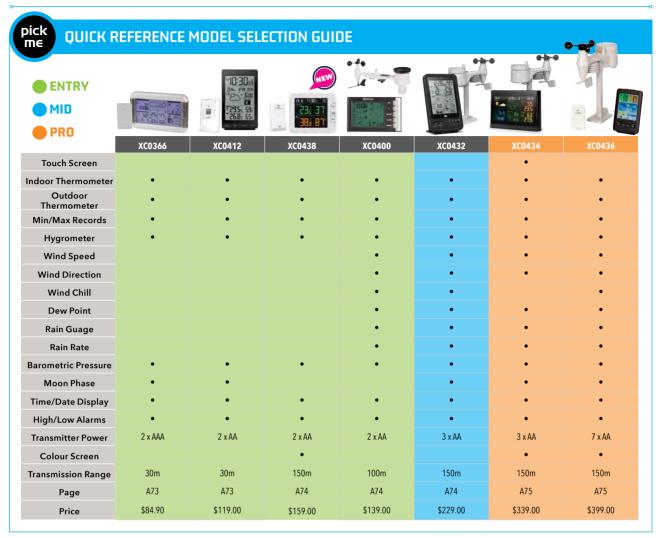


Includes Calibrato

Specifications	QM1598	1 6	<u>'</u>
Display	4 digit		
Accuracy	±1.4dB		
Calibration	Included		
Dynamic Range	50dB		
Resolution	0.1dB		
Update	Every 0.5 seconds		
Frequency Range	31.5Hz - 8.0kHz		
Dimensions	278(L) x 76(W) x 50(D)mm		
Cat.	Qty 1+	Qty 3+	Qty 6+
QM1598	\$339.00	\$299.00	\$269.00

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Compact Wireless Weather Station/Clock Calendar

This stylish unit features moon phases for the Australian/NZ region. It does not have wind speed/direction but has everything else. It has an external temperature/humidity, barometric sensor, (which really should be on an outside window sill so that you can easily access it for battery change). It has fantastic time logging. All-in-all, excellent value for money.

- Clock, clock alarm/snooze
- Calendar, including Day announcement
- Barometer trend log
- Weather forecast icons: Sunny, Partly Cloudy, Cloudy, Rainy, etc.
- Moon phase display (with tide indication)
 Sunrise/sunset time display
- Temperature/humidity display
- Temperature alert alarm



Specifications	XC0366			
Transmitter Frequency	433MHz			-
Power	2 x AA & 2 x	AAA (not incl	uded)	
Dimensions	Console: 2	20(W) x 141(H) x 36(D)mm	YEAR
	Transmitte	r: 100(W) x 55	(H) x 22(D)mm	WARRANTY
	Cat.	Qty 1+	Qty 3+	Qty 6+
Compact Wireless Weather Station	XC0366	\$84.90	\$75.90	\$67.90

Indoor/Outdoor Weather Station with Modern Upright Display

This is a stylish unit ideal for a desk top. It features an outdoor remote transmitter that displays temperature and humidity itself, which is handy when you are outdoors and need to know these things. The transmitter requires 2 x AA batteries (which last for ages - use good ones though!). It has a hook hanger but will sit up on a flat surface. Range 30-50m. The console unit has a high contrast 125(diagonal) x 70(W)mm monochromatic display with a pleasant amber backlight. It also has an alarm with snooze function.

Large time display

Date/Day alarm time

Moon phase

• Indoor/Outdoor Temperature/Humidity

· Limited weather forecast

ADDITIONAL TEMP/HUMIDITY SENSOR XC0413

Supports up to 3 sensors allowing you to monitor 3 different environments such as kids room, kitchen or living room at once.

Note: Unit requires 2 x AA batteries to operate



Specifications	XC0412	_		5 5 6
Frequency	433MHz	HISTORY	MEM	12/24/~ 01/^
Wireless Transmission Range	30m		1000	
Power - Main unit	2 x AA (not	included)		
Power - Remote sensor	2 x AA (not	included)		
LCD Dimensions	70 x 105m	m		
Dimensions - Remote sensor	100(H) x 6	5(W) x 35(D)mr	n	YEAR
Dimensions - Main unit	85(W) x 14	2(H) x 55(D)mr	n	WARRANTY
	Cat.	Qty 1+	Qty 3+	Qty 6+
Indoor/Outdoor Weather Station	XC0412	\$119.00	\$106.90	\$94.90

Smart Wi-Fi Multi-Channel Weather Station with Colour LCD Screen

With Lolour LCD Screen

With this feature-rich Wi-Fi weather station, you can use your Smartphone to check the temp and humidity in your home or office in real-time, or download and graph the history data by day, month or year. You can even set up alerts to your phone when high or low conditions are met. When your wine cellar gets too hot, for example. The wireless high precision temp/humidity sensor can be mounted up to 150m away, and up to 6 more can be added (sold separately), which can cycle through automatically on the screen. The display can be desk or wall mounted, features large easy-to-read colour digits, and has two brightness settings for day or night. Other features include synchronised Internet local time and date, alarm with snooze, weather trend, comfort level indicator, min/max temp & humidity readings, and the ability to trigger other Tuya compatible IoT devices. Works with Tuya smart & Smart life Apps, and supplied with a mains power adaptor.

Soil Thermo-Moisture Sensor available separately: XC0439

- Long range 150m wireless Thermo-Hygro sensor
- Access from you Smartphone via Wi-Fi
- Supports up to 7 sensors

Works with Tuya smart <u>& Smart life</u> Apps





Specifications	XC0438			
Frequency	868MHz			
Wireless Transmission Range	150m			
Power - Main unit	CR2032 (no	t included)		
Power - Hygro-Thermo Sensor	2 X AA (not included)			
Dimensions	Main unit: 130(W) x 112(H) x 27.5(D)mm Remote Sensor: 113(H) x 61(W) x 39.5(D)mm			
	Cat.	Qty 1+	Qty 3+	Qty 6+
				•
	XC0438	\$159.00	\$142.90	\$126.90

Wireless Thermo-Moisture Soil Sensor

The XC0439 is a addon sensor for the Smart Weather Station XC0438 it allows you to take remote outdoor soil moisture readings while staying in the comfort of your home. Connected via the Tuya platform, installation is fast and simple. The design of the unit allows it sit higher above the soil, allowing for improved data transmission ranges while giving you soil readings when you need it. Get set for the dry months with an XC0438 weather station with 8 day forecasting and a range of soil moisture sensors to manage your watering days and keep you garden in tip-top shape.

- Measures soil temperature and moisture
- Transmission status LED
- Up to 150m range



LIMITED

				WARRANTY
Specifications	XC0439			
Dimensions	113(H) x 61(W) x 40(D)mm		
	Cat.	Qty 1 +	Qty 3+	Qty 6+
	XC0439	\$39.90	\$35.90	\$31.90



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Wireless Weather Station with 5.5" Mini LCD

This unit records temperature, wind chill, wind speed/direction, dew point, humidity and more. It also features alarm modes for temperature, humidity, wind chill and more. Data will be transmitted wirelessly to the display unit over distances up to 100m. It features an LED backlight for greater reading clarity in poor light.

- Records mix/max temperature
- Wind direction
- 12 or 24 hour time display
- Time alarm







Specifications	XC0400			
Temperature Range (Outdoor)	-40°C to 65	°C (-40°F to 14	9°F)	
Temperature Range (Indoor)	-9.9°C to 60	0°C (-14°F to 14	40°F)	
Windchill	-40°C to 65°C (-40°F to 149°F)			
Weather Alarm Mode	Temp, humidity, wind chill, dew point, rainfall, wind speed			
Wind Speed	km/h, mph, m/s, knots, Beaufort			
Power	Outdoor Sensor: Requires 2 x AA 1.5V LR6 Alkaline batteries. Base Station: 3 x AA 1.5V LR6 Alkaline batteries Power supply included for base station.			
Dimensions (Base Station)	142(H) x 90	O(L) x 30(W)mr	n	
	Cat.	Qty 1+	Qty 3+	Qty 6+
Wireless with 5.5" Display	XC0400	\$139.00	\$124.90	\$110.90

Modern, Upright Style with Clear LCD Screen and Longrange Data Sender

Apart from the very clear (monochrome) upright LCD screen, this unit includes the same 5-in-1 weather sensor/transmitter as the XC0434 unit shown elsewhere. Older transmitters operate on the 433MHz ISM band, which is plagued by garage door opener transmitters. This unit works on the 917MHz band with a range of up to 150m and is not allocated to a lot of consumer-type equipment. This unit has basically the same features of the XC0434 (See that unit for details) but with a compact display and offers a saving over the colour console unit.





WARRANTY		HETORY MAX	m L	
Specifications	XC0432			
Frequency	917MHz			
Wireless Transmission Range	150m			
Power - Main unit	3 x AA (not in	cluded)		
Power - Remote sensor	3 x AA (not in	cluded)		
LCD Dimensions	90 x 120mm			
Dimensions - Remote sensor	343(W) x 393	(H) x 136(D))mm	
Dimensions - Main unit	120(W) x 190)(H) x 22(D)r	nm	
	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC0432	\$229.00	\$199.00	\$179.00

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WEATHER STATIONS

WEATHER STATIONS CONTINUED

7" Colour Touchscreen with 5-Way Longrange 917MHz Transmitter

The main improvement to this model over the previous unit is the outdoor weather sensor. This sensor does not use the 433MHz band, which is sometimes plagued by interference from garage door openers especially. This model will send weather data to the indoor console unit up to 150m away! It has an improved rain gauge as well.

Large 7" Colour Display

THE SENSOR

- Temperature / humidity
- Wind speed
- Wind direction (16 point)
- Rain gauge

Requires 3 x AA batteries

THE CONSOLE DISPLAY

- Active display area measures 165 x 90mm
 Time, calendar, weekday and alarm
- Gust, or average wind speed (m/s, kmh)
- Real time and dominant wind direction
- Rain rate, daily/weekly/monthly (in or mm)
 Weather forecast (Sunny, slightly cloudy, cloudy, raining, stormy or snowy)
- Barometric pressure (relative or absolute)
- · Histogram of rainfall or barometric data
- Much, much more



WARRANTY				
Specifications	XC0434			
Frequency	917MHz			
Wireless Transmission Range	150m			
Power - Main unit	5V Mains adaptor included			
Power - Remote sensor	3 x AA			
LCD Dimensions	165 x 90m	m		
Dimensions - Remote sensor	343(W) x 3	93(H) x 136(D)	mm	
Dimensions - Main unit	202(W) x 1	38(H) x 38(D)n	nm	
	Cat.	Qty 1+	Qty 3+	Qty 6+
Weather Station and Sensor	XC0434	\$339.00	\$299.00	\$269.00



Own The Way You Pay!

Zip Pay is not currently available in New Zealand

Wireless Digital Weather Station with Colourful LCD Display and Wi-Fi



Get your own local weather forecast with this professional Wi-Fi weather station. The feature-rich system is supplied with a wireless 5-in-1 outdoor sensor to measure rainfall, wind speed, wind direction, temperature, and humidity, as well as one high-precision hygro-thermo sensor to measure humidity and temperature from another place on your property. All sensors send data by a low power radio frequency signal (917MHz band) to the multi-colour main display unit up to 150m away (line of sight).

The backlit display can be desk or wall-mounted, and shows you the local forecast, high/lows, totals and averages for virtually all weather variables, without a PC. Connect it to your Wi-Fi network to be able to upload the weather data to wunderground.com and weathercloud.net, where you can access and upload your weather data freely. The time and date will be kept accurate as well, thanks to the internet time server.

With calibration and moon phase features, this system is truly a remarkably personal yet professional weather station for your own backyard. Supplied with a USB power cable to power the main display from an available USB power source.

ADDITIONAL TEMP/HUMIDITY SENSOR XC0437 NEW



Specifications	XC043	5		
Frequency	917MHz			
Wireless Transmission Range	150m			
Power - Main unit	CR2032 (included)			
Power - Remote sensor	3 X AA (not included)			
Power - Hygro-Thermo Sensor	2 X AA (not included)			
LCD Dimensions	87 x 106n	nm (5.4" Diago	nal)	
Dimensions - Remote sensor	61(W) x 1	15(H) x 38(D)m	m	
	Cat.	Qty 1+	Qty 3+	Qty 6+
Weather Station and Sensors	XC0436	\$399.00	\$359.00	\$319.00
Additional Temp/Humidity Sensor	XC0437	\$46.90	\$41.90	\$36.90



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ENVIRONMENT MONITORS

Digital Rain Gauge with Temperature

This Digital Rain Gauge with Temperature has a wireless self-emptying rain collector for measuring rain fall and temperature. The wireless rain collector sensor transmits data by using a low power radio frequency to the display main unit that can be located up to 150m away (line of sight). The display unit stores the data over a time range to allow you to monitor and analyse the weather status for past 24 hours. It has advance features such as the HI/ LO Alert alarm to alert you while the set high or low weather criteria are met. It allows you to analyse hourly, daily, weekly, monthly and yearly rain fall records. With radio-controlled / atomic clock feature built-in, the system is truly a remarkable personal but professional rain gauge for your own backyard.

- Total Hourly, Daily, Weekly, Monthly and Yearly rainfall display
 Data logger stores and gathered data to display rainfall
 Graphical histogram display shows variation of rainfall pattern
 SINCE function to display TOTAL rainfall from a date

- Real time clock display with Atomic Radio Controlled function
- 150m sensor transmission range
- High / Low Alert function
- · Alarm function with icealert function
- Large backlit LCD
- Measures temperature







Specifications	XC0430			
Battery	2 x AA size 1.	5V batteries (n	ot included)	
Support Channels	Wireless sens (Rain gauge,	sor thermo senso	r)	
Dimensions	155(H) x 95(W) x 23(D)mm			
Weight	372g			
	Cat.	Qty 1+	Qty 3+	Qty 6+
Rain Gauge	XC0430	\$119.00	\$106.90	\$94.90

USB Temperature & Humidity Data Logger

An easy to use temperature and humidity data logger with USB interface. The logger is water resistant so it can be used indoors or outdoors. Big buttons with LCD display to easily change your settings. Stores up to 20,736 readings, and there is capacity gauge to

monitor memory usage. Once connected to a computer via USB, the supplied software can read the logged data and export in graphs or CSV files.

- 20,736 readings capacity
- Logging interval from 8 seconds to 4hrs



Upload logged data via USB

Specifications	XC0424			
Temperature Range	-40°C to 60°C			
Humidity Range	0%RH - 99%RH			
Power	1 x 3V CR2032			
Battery Life	12 months			
Dimensions	87(L) x 60(W) x 19	(H)mm		
	Cat.	Qty 1+	Qty 3+	Qty 6+
	- Juli			,
	XC0424	\$69.90	\$62.90	\$55.90

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Ultrasonic Water Tank Level Meter with Thermo Sensor

Keep an eye on your outdoor water tank from the comfort of your own living room, up to 100m away. Installed at the top of your water tank, the transmitter unit measures the water level and temperature using an ultrasonic sensor. You can hang the receiver unit on a wall (hooks) or pull out the stand and place it on your kitchen bench top, table or desk. View your room's temperature, tank temperature and water level (represented by a 10 element bar graph). You can store min/max records and set alarms for specific water levels (high/low) or when empty.

- Transmission range up to 100m
 Time display (12/24hr) / Time alarm mode
- Indoor temp. display / Tank temp display
- Tank level display (metre/feet)
- Tank level updated every 30 seconds or 3 mins
 Water level displayed on a 10 element bar graph
 Min. & Max. records for indoor & tank temp
- Tank level alarm mode (high/low)
- Tank empty alert
- Low battery indicator
- Wall mount,
- Free standing

Calendar display

Min / max records and alarms



Specifications	XC0331			
Battery Power	Receiver: 2 x AA 1.5V (not included) Outdoor transmitter: 6 x AAA 1.5V (not included)			
Dimensions	Receiver: 106(L) x 97(W) x 24(D)mm Sensor (into tank): approx 47(Dia.)mm			
	Cat.	Qty 1+	Qty 3+	Qty 6+
Water Tank Level Meter	XC0331	\$119.00	\$106.90	\$94.90

IRRIGATION TIMER

Digital Irrigation Timer with 3 Individual Timers & Water Sensor

This unit is itself waterproof (IPx5), runs for ages on 2 x AA alkaline batteries, simply connects to any 3/4" garden tap. It is supplied with 1/2"; snap in hose adaptor as well. It has a clear LCD display and comes with a clear instruction book It is ideal for gardens, shrubs, small lawns, patios etc. It probably is not big enough for large lawn/garden setups. A great feature is a prominently mounted rain sensor which shuts the unit off to save unnecessary watering if its raining. When it stops raining it resumes normal programming.



Three individual timers

Specifications	AA0380	- 1			
Batteries	2 x AA Alkaline (Not in	ncluded) 📒			
Working Pressure	0.05 to 0.8 MPA				
Hose Tap Connection	1/2" or 3/4"				
Ingress Protection	IPX5				
Dimensions	160(L) x 86(W) x 56(H	H)mm			
	Cat.	Qty 1+	Qty 3+	Qty 6+	
Irrigation Timer & Water Senso	r AA0380	\$69.90	\$62.90	\$55.90	

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AUTOMOTIVE TEST EQUIPMENT

Low Voltage Circuit Tester 6, 12, 24 Volts

Looks like a neon test screwdriver but instead of a blade on the end this tester has a probe and a 28" lead which clips to ground. Suitable for 6/12/24 volts for use on cars, trucks, boats, etc.



	Cat.	Qty 1+	Qty 3+	Qty 6+
6-24VDC	TD2049	\$6.90	\$6.20	\$5.50

In-car Battery Monitor and Temperature Display

Absolute plug and play - simply plug it into an available cigarette lighter socket and you're good to go! Whenever power is applied, it will provide you with battery / system voltage, and current temperature.

- Dual function displayNo installation required
- Bright LED screen
- Temperature Meter: 10°C to 80°C +/- 0.1°C
- LED: Blue+Red

	Cat.	Qty 1+	Qty 4+	Qty 10+
5-30VDC, -10°C to 80°C	QP2222	\$22.90	\$20.90	\$17.90

Self Powered Round LED Voltmeter 5-30VDC

Quite possibly the easiest way to monitor your battery voltage, or the voltage in any DC powered system. Simply wire up to a positive and negative DC power source of 5-30VDC, and the voltmeter tells you the voltage (taking

power from the DC source to operate). Supplied with a panel mount and a surface mount "hood". Connection is via 6.3mm spade terminals

• Voltmeter: 36(Dia) x 26(D)mm

• Panel mount: 60(W) x 42(H)mm

 Surface mount hood: 55(W) x 80(L) x 50(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
LED Voltmeter	QP5582	\$29.90	\$26.90	\$23.90

Dual Battery LED Voltmeter

Monitors two power sources at once - ideal for dual battery installations. Includes flush panelmount and surface-mount hardware. Voltage range is 10-60VDC, so it's suitable for some higher voltage (eg, 48V) solar installations too, to potentially monitor PV and battery voltage simultaneously.

• Operating Voltage: 10-60VDC

• Dimensions: 49(D) x 35(Dia.)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
10-60VDC	QP5583	\$33.90	\$29.90	\$26.90

Blue LED Display Thermometer with 3m External Sensor

A quick and simple way to monitor temperature in a vehicle, this panel mount guage displays the temperature being picked up by the probe thats mounted to a handy 3m cable so it can be run behind a dash into the engine bay. Simply wire up to a DC power source between 12-24VDC, and the blue LED display will show current temperature.

• Supplied with brackets for panel mounting

• Connection is via 6.3mm spade terminals

• Connection is via 6	3mm spade termii	nals	MPMETER	
Specifications	QM7313		4. 7	
Temperature	-14°C to 120°C		2	
IP Rating	IP66		C	
Dimensions	60(W) x 42(H)mn	1		
	Cat.	Qty 1+	Qty 3+	Qty 6+
-14°C to 120°C	QM7313	\$22.90	\$20.90	\$17.90

12V Car Voltage, Alternator & Temperature Display

Plugs into the car's cigarette lighter socket to display the car's battery voltage and inside temperature. An audible and visual alarm can be set to trigger when the car's battery voltage dips too low, which could save you from breaking down in the middle of nowhere with a dead car battery The display features a tricoloured LED to show the battery status and electrical system status at a glance. Stylish modern design allows for easy dash mounting. Celsius or Fahrenheit temperature display.



	Cat.	Qty 1+
12VDC	XC0117	\$39.90

Panel/Surface Mount LED Voltmeter & Amp Meter

Quite possibly the easiest way to monitor battery voltage and current draw on your van, RV or boat. Simply follow the included wiring diagram to measure 5-30VDC, and 0 to 10A DC. Supplied with a panel mount and a surface mount "hood". Connection is via three 6.3mm spade terminals (current shunt

• Volt/Current Meter:

built-in).

- 36(Dia) x 40(D)mm Panel Mount: 60(W) x 42(H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm





	Cat.	Qty 1+	Qty 5+	Qty 10+
5-30VDC, 0-10A	QP5584	\$45.90	\$40.90	\$35.90

LED Voltmeter 5-15VDC with Bar Graph

A quick and simple way to monitor the battery voltage in a vehicle, this voltmeter simultaneously shows the voltage numerically and on a bar graph. Simply wire up to a DC power source between 5-15VDC, and the blue LED voltmeter displays the voltage.

Supplied with a panel mount and a surface mount "hood". Connection is via 6.3mm spade terminals.

- Voltmeter: 36(Dia) x 26(D)mm
- Panel mount: 60(W) x 42(H)mm
- Surface mount hood: $55(W) \times 80(L) \times 50(H)$ mm





	Cat.	Qty 1+	Qty 5+	Qty 10+
5-15VDC	QP5589	\$48.90	\$43.90	\$38.90

Bluetooth® Battery Monitor

A powerful intelligent battery monitor for smartphones. It's easy to install, simple connect to the battery terminals - that's it! Then install the free to download app on your favourite smartphone, for full real-time display, datalogging, as well as push notifications for low battery voltage warnings and more! Short circuit and reverse polarity protected for safety. Easy to use and convenient.

- Real-time battery monitoringStores & displays historical data
- Tests: battery, cranking, charging, trip duration
- · Automatic sync, alerts sent to mobile (free APP on iOS, Android)





Battery Monitor	

	Cat.	Qty 1+	Qty 4+	Qty 10+
ery Monitor	QP2265	\$56.90	\$50.90	\$44.90

AUTOMOTIVE TEST EQUIPMENT CONTINUED

Battery, Charger & Alternator Testers

These handy devices quickly indicate the condition of your car or truck battery, charger or alternator. They use 3 LEDs to indicate battery and charge under engine on/engine off conditions. Compact and lightweight, they include 600mm leads with crocodile clips, and an inbuilt magnet to secure the unit while taking measurements.

• Dimensions: 120(L) x 33(W) x 20(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
3-in-1 Tester	QP2258	\$15.90	\$13.70	\$12.30

Specialist Universal LCD Battery Tester

Provides testing for most types of small rechargeable batteries, including a huge range of Lithium-based (LiFePo4, Li-Ion etc) batteries. You can test voltage, capacity, and internal resistance. Internal resistance is usually tied to the current charge level, however generally increases with a battery's age, it provides a good indication of battery health, most notably in Lithium-based rechargeable batteries. It also works with alkaline and various other non-rechargeable batteries.

- Tests over 11 types of batteries including cylindrical and button cells
- Test battery voltage, capacity (%), and internal resistance
- Weight: 161g (Includig Cables)
 Cable Length: 720mm
- Dimensions: 75(W) x 135(H) x 28(D)mm See website for full specifications.



Digital Tachometer with Memory

This non-contact digital tachometer provides fast and accurate RPM and surface speed measurements of rotating objects. It has a wide measurement range from 2 to 99,999 RPM with high resolution on the 5-digit backlit LCD screen The easy to use device also features an integrated laser pointer, RPM and Revolution test modes, a sampling time of 0.5 seconds (over 120 RPM), and built-in memory recalls for maximum, minimum, and last values stored. Carry case included.

RPM & revolution modes
High resolution
Min & Max values
2 - 99 999 RPM

• riigii resolution	~ Z - //,/// KI WI
Specifications	QM1449
Accuracy	± (0.05%+1 digits)
RPM Test Range	2 to 99,999 RPM
Count Range	1 to 99,999 REV
Resolution	0.1 RPM (2 to 999.9 RPM), 1 RPM (Over 1000RPM)
Sampling Time	0.5 Sec. (over 120 RPM)
Detecting Distance	50mm to 500mm
Dimensions	160(L) x 58(W) x 39(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Tachometer with Memory	QM1449	\$79.90	\$71.90	\$63.90

Automotive Multi-Function Circuit Tester with LCD

Designed to test the electrical system of an automotive vehicle running on 12V or 24V. One of the great features is being able to activate components with positive or negative without using a jumper wire. To top it all off the easy to read LCD is backlit so it's perfect for the dark crevices of an engine bay. All the features of a brand name unit at a fraction of the price. For full specifications see our website.

• Dimensions: 240(L) x 78(H) x 40(W)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+	
Works on 12V or 24V systems	QM1494	\$79.90	\$71.90	\$63.90	

OBD-II Engine Code Reader

Modern car engines are controlled by computers which regulate engine performance. Sensors are connected to major components which constantly send data to the computer which then adjusts performance accordingly to ensure minimal emissions and optimal performance. Reading data from these computers helps mechanics pinpoint where problems may lie in car performance. You can also find out this information with this OBD-II car performance. You can also find out this information with this OBD-II engine code reader. It connects to your OBD-II port and will immediately interpret the information in the ECU (engine control unit). You can use this information to find faulty sensors which adversely affect performance, see if cylinders are misfiring, see how hot your engine coolant is, view engine RPMs and much more. Diagnosing and fixing certain problems yourself can save a lot of time and money. It's also fascinating to see how much engine information is readily available in modern cars.

Viewable parameters*:

- Vehicle Speed
- RPM

12 VDC ONLY

- Fuel Consumption
- Engine Coolant Temp
- Fuel Pressure
- * Not all measurements will be available in some cars

🔝 Bluetooth

	Cat.	Qty 1+	Qty 2+	Qty 4+
OBD-II Engine Reader	PP2145	\$79.90	\$71.90	\$63.90

ODB-II Engine Code Reader/Diagnostic Tool with 2.4" LCD

A great way to accurately identify car problems and avoid unnecessary or costly maintenance. This handy diagnostic tool plugs into the OBD-II port of your car and displays the data from the engine system directly on the backlit 2.4" colour LCD screen. See engine performance real-time, quickly read and clear engine data trouble codes (DTC), turn off MIL light, perform an electrics cranking or charging test, check state emission monitor status, drive cycle verification, and much more. Works with most OBD-II compliant cars, mini vans, and light duty vehicles sold worldwide since 1996.

- Read & remove codes
- Reads live PCM data stream
- Views freeze frame data
- Easily determines the cause of the Malfunction Indicator Light (MIL)
- Turns off Malfunction Indicator Light (MIL), clears codes and resets monitors
- Displays DTC (Data Trouble Codes) definitions
- Retrieves generic (P0, P2, P3 and U0), manufacturer specific (P1, P3, and U1) codes, and pending codes
- Displays monitor and I/M readiness status (emissions)
- Retrieves vehicle information (VIN, CIN and CVN)
- Test the vehicle charging and cranking systems

Screen shown for illustrative purposes only

Specifications



Operating Voltage	8-18VDC	-		
Display	2.4" Colour LCD, 22	0 x 176dpi		
Dimensions	130(L) x 85(W) x 25	i(D)mm		
	Cat	Oty 1±	Oty 2±	Oty 4+

OBD-II Engine Reader with 2.4" LCD PP2147 \$69.90 \$62.90 \$55.90

OBD-II Extension Cable

OBD-II male to female extension cable. Can be used to re-locate the OBD-II port for easier accessibility.



	Cat.	Qty 1+	Qty 2+	Qty 4+
1m long	LA9037	\$22.90	\$20.90	\$17.90

Freecall order hotline: 0800 452 922

MEASUREMENT

TYRE AIR PRESSURE

Compact Tyre Pressure Gauge

Tyre wear is exaggerated when your tyre pressure isn't kept at the manufacturers recommendations. Now you can check your tyre pressure before you set off with confidence. Simply push onto the valve, press the button, and presto! Your pressure is displayed on the screen. It couldn't be easier!

- Air Pressure Units: psi, bar, kPa, kgf/cm²
- Battery: 1 x LR44 Button Cell (Included)
- Dimensions: 42(W) x 98(H) x 26(D)mm, 48g



Cat. Qty 1+	Qty 3+	Qty 6+
100psi QP2285 \$13.90	\$12.90	\$10.90

Tyre Pressure Gauge with **Deflation Monitoring**

Keeping your tyre pressure in check is important for maximising the life of your expensive tyres. But if you're travelling on sand or muddy terrain, or 4WDing in general, you often want to reduce pressure in the tyres to maximise your overall footprint and stability. Sure, you can grab a stick and manually deflate the tyres, but who wants to do that! Use this gauge and it will show current pressure while it deflates, so you can stop at any time! Also helps prevent over-deflation of tyres! Also features a bright LCD and LED torch to help you see what you're doing.

- Measurement Range: 5-100psi
 Units of Measurement: psi, bar, kg/cm²
- Batteries: 2 x CR2032 Button Batteries (Included)
- Dimensions: 33(W) x 150((H) x 36(D)mm, 81g





	Cat.	Qty 1+	Qty 3+	Qty 6+
5 - 100psi	QP2287	\$33.90	\$29.90	\$26.90

CIRCUIT TESTER

Non-Contact AC Voltage Proximity Detector

About the size of a marking pen, this non-contact tester detects AC voltages from 200-1000V. Featuring red and green indicators, the unit will glow green when safe, and when voltage is detected it will flash red and beep at an increasing rate as you get closer to the voltage source. It can be used for detecting live mains in outlets, power boards or insulated wiring. It also has an LED

torch and a handy pocket clip.

A must for every toolbox!

- Auto Power Off
- Flashlight function
- CAT III rated
- Green and Red LED indiciators
- Switchable audible and silent mode
- Includes 2 x AAA batteries
- Dimensions: 176(L) x 26(D)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
QP2268	\$29.90	\$26.90	\$23.90

3-30VDC Tester with Voltage/Polarity Readout

Provides useful debugging and testing in many systems, most notably vehicles, boats, motorbikes, and other 6-24V systems. It provides an accurate voltage readout as well as polarity check. It's a more advanced version of a test-lamp used for decades in the automotive industry. Self powered from the test circuit.

- Tests powered-on circuits
- Works on 6V, 12V, and 24V systems
- Stainless steel testing probe



Specifications	QP2216				
Working Voltage Range	3V-30V (±0.3V Accuracy)				
Operating Current	12VDC < 70mA				
Dimensions	228(H) x 30	O(Dia.)mm			
	Cat.	Qty 1+	Qty 3+	Qty 6+	
	QP2216	\$22.90	\$20.90	\$17.90	

SPECIALTY METERS

30m Laser Distance Meter with 5m Tape Measure

Use this 2-in-1 laser measuring tape to measure rooms or areas up to 30m* using the laser or objects up to 5m using the retractable tape. The display can be set to show metres, inches or feet, with a laser accuracy down to just +/-3mm in ideal lighting conditions. The internal rechargeable battery can be charged from an available USB power source, and power save features extend



the battery life. *Up to 30 metres under good measuring conditions (good measuring surface, room temperature). Under bad measuring conditions (such as too strong ambient light, excessive or small measured coefficient of the measured point, excessive temperature difference, etc.) the deviation is ±0.25mm/m

Please use a reflector in cases of strong sunlight or poor reflection of the target

					•	
Specifications	QM1627	QM1627				
Units	m/in/ft	m/in/ft				
Distance Range	0.03m - 30	0.03m - 30m				
Measurement Accuracy	+/- 3mm					
Measurement Time	0.3-4s					
Battery	500mAh 3.7V Lithium					
Automatic Power off	After 45 sec	conds				
Laser	620~670n	ım, <1mw,	15 second po	wer off		
Dimensions	75(L) x 75(H) x 40(W)mm					
	(Cat.	Qty 1+	Qty 3+	Qty 6+	
	(2M1627	\$69.90	\$62.90	\$55.90	

Mini Laser Distance Meter - 20m

A laser distance meter makes light work of taking area measurements. No longer do you have to get a second pair of hands on the other end of a tape measure, while you find some eye-protection for the inevitable recoil when you're done! Providing measurements up to 20m, with an accuracy of just 1.5mm - that's probably less than the flex in the end-hook of a tape measure anyway! Resolution down to 1mm, it also provides the last 20 measurements. Works in metric or imperial measurements, and can even help you with your area and volume calculations! The weatherproof case helps you work in just about all conditions too.

- Up to 20m range
- Metric and imperial Area volume calculations
- Weatherproof IP54 case

			Q .
Specifications	QM162	26	
Batteries	2 x AAA (i	ncluded)	1000
Range	0.05 to 2	0m	(325 "
Accuracy	1.5mm		
Resolution	1mm		
History	20 Measu	ırements	100
Units	m, in, ft		
Laser Class	Class II 65	50nm, <1mW	
IP Rating	IP54		
Operating Temperature	-10°C to 5	0°C	Contraction of the
Battery Life	Up to 500	00 Measurement	S Laser Distance Meter
Weight	64g (excl	uding batteries)	
Dimensions	37(W) x 1	00(H) x 24(D)mı	n
	Cat.	Qty 1+	Qty 3+ Qty 4+

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<u> </u>			

QM1626

\$79.90

\$71.90

\$63.90

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STUD DETECTOR

3 in 1 Stud Detector with Laser Level

A stud detector that doesn't just "beep" when you're over the stud, it shows the proximity when you are NEAR a stud via the large LCD and shows a target graphic when you're spot on. Also includes live wire (voltage) detection, you can be sure that nail you're about to hammer into the wall won't end up in your mains wiring. The best feature of all is the built in laser level. Rotating across 180° with stops on 45° and 90°, you can instantly and easily do layouts and basic tasks such as picture levelling in a snap. The inbuilt spirit level ensures you're at the right angle

level ensures you're at the right angle.

- Laser levelling, layout and stud locating on vertical and horizontal surfaces
- Wood, metal and live wire detection
- 180° pivoting laser plane with level and plumb vials
- 20ft laser line projections onto work surface with 90° squaring
- Two self contained half pins to mount unit to work surface
- LCD sensing and mode display with target graphics
- LED display with continuous live wire detection
 Thumb dial adjustable feet for levelling the laser
- Easy keypad operations and comfortable grip
 Powered by 9V Battery (included)
- Dimensions: 180(H) x 67(W) x 38(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Stud Detector	QP2288	\$74.90	\$67.40	\$59.90

VERNIER CALIPERS

Budget 150mm Digital Vernier Calipers

This carbon composite digital caliper is ideal for general use and situations where the cost of our precision stainless steel tool isn't justified. The digital display is calibrated in imperial and metric units with a corresponding vernier scale etched onto the caliper slide. While we wouldn't recommend you use this caliper to build the Space Shuttle, it's perfectly suited to the home handyperson who finds traditional calipers hard to read

- 150mm measurement range
- 0.1mm resolution
- 8.3mm LCD character height
- 245mm Overall length (closed)Internal and external jaws
- Includes battery



Budget 150mm Vernier Calipers TD2081 \$20.90 \$1	18.90 \$16	5.90

150mm Digital Vernier Calipers

This precision instrument is made out of surgical grade stainless steel. It features a 5 digit LCD and will show readings in metric - 3 significant figures plus 2 decimal and in imperial - 2 significant figures and would you believe 3.5 decimal. (The fourth figure is either 0 or 5). The caliper can be zeroed at any point on the scale. Supplied with a sturdy clip-lock case with foam retainer and provision for spare battery.

- 0 150mm (0-6") range Resolution 0.01mm / 0.0005" (repeatability same)
- LR-44 battery powered (supplied)
 Battery life 12 months nominal
- Auto power off
- Thumbscrew slide damper
- Converts millimeters to inches and vice versa



	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm Vernier Calipers	TD2082	\$48.90	\$44.00	\$39.10

WEIGHING SCALES

100g Mini-Pocket Scale

Truly pocket-size scales. Ideal for laboratory, diets, clinical, jewellery or lapidary work. They'll measure up to 100 grams with excellent resolution and weigh in grams, carats, pennyweight or ounces. 1 x CR2032 battery included.

- 60 second auto power-off
- Tare function
- 0.01g resolution
- Dimensions: 72(L) x 40(W) x 10(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
100g Mini-Pocket Scale	QM7258	\$59.90	\$53.90	\$47.90

200g Mini-Scale with Backlight

Extremely accurate mini scale suitable for a variety of applications. The large LCD is backlit and a 200g calibration weight is included. Resolution is 0.01g and it weighs in grams, carats, and

- 2 x AAA batteries included
- Dimensions:

pennyweight.

93(L) x 52(W) x 20(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
200g Mini-Scale with Backlight	QM7259	\$83.90	\$75.50	\$66.90

1kg Digital Bench Scale

Precision 1kg electronic scale with resolution of 0.01g for when a high degree of accuracy is required. Weighs in grams, ounces, pounds, grains, carats, troy ounces and also supplied with a wind shield and a built-in bubble level to provide maximum accuracy. Particularly suited to calculating quantities as it counts pieces by weight. Powered by 4 x AA batteries (not included) or mains adaptor. Suitable

for kitchen, lapidary, jewellery, reloading etc.

- 1min auto power-off
- Automatic calibration
 Backlit LCD
- Tare function
- Counting function Mains powered
- Dimensions:
- 175(W) x 75(H) x 260(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
1kg Digital Bench Scale	QM7264	\$239.00	\$209.00	\$189.00

Compact Digital Luggage Scale 50kg

Provides measurement in grams and kilograms, as well as pounds and ounces.
Bright display with clear numbers and

blue-backlight. Battery included.

- Up to 50kgkg/g and lb/oz
- · Blue backlight



Freecall order hotline: 0800 452 922

PANEL METERS & ACCESSORIES

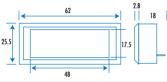
PANEL METERS

3.5 Digit LCD Panel Meter

- Attractive modern bezel
- Snap retaining into panelShallow depth
- 0.1" launcher connections
- Polariy: Automatic (-) for negative value
- Input: Analogue
- Zeroing: Automatic
 Operating temp: Standard 0°C to 50°C
- Configuration: True differential input & reference
- Decimal point: User selectable
 Full scale range: 200mV
 Impedence: 10MΩ

- Conversion rate: 2.5 per second





				•	
Specifications	QP5570				
Type Of Display	LCD				
Digits	3 1/2 digits (19	99) 12.7mm fi	gure height		
Power	5V powered	V powered			
Over Range	Display flashes	"1"			
Accuracy	±(0.1%rdg.+1	dgt.)			
Connection	13 pins				
Dimensions	62(W) x 25(H) x	15(D)mm			YEAR
Panel Cutout	60.5(W) x 24(H))mm			WARRANTY
		Cat.	Qty 1+	Qty 5+	Qty 10+
LCD Panel Meter		QP5570	\$33.90	\$29.90	\$26.90

Add On Board to suit QP5570

This add on board makes it easy to set the range and decimal point on our QP5570 panel meter. The ranges can be permanently set with a solder bridge or wired to a switch for selectable ranges.

Note:

- Also suits previously sold QP5580 LED panel meter, but doesn't support 200mV range
- · Cannot be used in applications where voltage to be measured also powers DPM

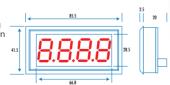


	Cat.	Qty 1+	Qty 5+	Qty 10+
Add On Board to suit QP5570	QP5575	\$11.90	\$10.70	\$9.50

3.5 Digit Jumbo LED Panel Meter

This is not just a digital display, but a fully functional high impedance digital panel meter that only requires power to operate. It will measure voltages from 200mV to 500VDC (jumper selectable) and has a maximum count of 1999. The module is suitable for a host of applications and can be used as a voltmeter or adapted for use as a current meter, thermometer etc. The decimal point location can be selected with a jumper and the module uses an easy "plug-in" fixing method. The meter shares a common ground with the voltage being measured.





Specifications	QP5585	QP5585				
Type Of Display	LED	LED				
Digits	3.5 Digits (3.5 Digits (1999) 20.3mm figure height				
Power	5VDC, com	5VDC, common ground, 60mA typical				
Over Range	"1" shown	"1" shown on display				
Accuracy	±0.5%	±0.5%				
Dimensions	85(W) x 42	85(W) x 42(H) x 25(D)mm				
Panel Cutout Size	84(W) x 41	84(W) x 41(H)mm				
	Cat.	Qty 1+	Qty 5+	Qty 10+		
3.5 Digit Jumbo LED Panel Meter	QP5585	\$41.90	\$37.90	\$33.40		

Self-Powered LED Panel Meter 4.5-30VDC

Super simple to install, simply connect the power you want to monitor! Some panel meters require a power source in addition to a sensor wire to the source you want to monitor. The unit connects straight up, with no fuss! Suitable for use between 4.5V and 30VDC, it's suitable for many DC applications including cars, boats, caravans, and other 12-24V sources.

However its wide measurement range means it can be applied to many other applications too! Red coloured display. Panel mount with self-retaining spring clips.

- 4.5-30VDC input
- Simple two-wire installation



Specifications	QP5581	QP5581				
Type Of Display	LED	LED				
Digits	3 Digits (99	3 Digits (999)				
Input	4.5-30VDC	4.5-30VDC				
Accuracy	1%	1%				
Refresh Speed	300ms	300ms				
Working Current	<23mA	<23mA				
Weight	16g					
Dimensions	48(W) x 29	48(W) x 29(H) x 22(D)mm				
Panel Cutout Size	45(L) x 26(45(L) x 26(W)mm				
	Cat.	Qty 1+	Qty 5+	Qty 10+		
Voltmeter	QP5581	\$16.90	\$14.90	\$13.90		

Self-Powered LED Panel Ammeter

Simple and easy to install self-powered ammeter for current display. It has 4-wire connection with an included current shunt. Auto zero calibration and easy to read red LED display. Give your next project a truly professional look. Perfect for automotive, caravan or 4WD use

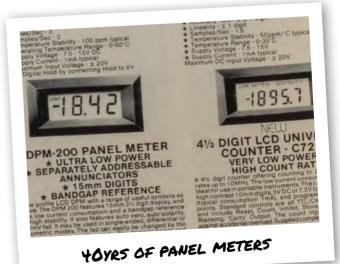
- Cutout size 42 x 23mm
- Easy installationReverse Polarity protection
- Auto zero calibration
- Self powered



Specifications	QP5588
Power Requirements	8 - 30VDC
Measurement Range	0 - 50ADC
Maximum Display Count	1999
Sample Frequency	400mS
0 . 1 .: 1 1 1	

Note! When connecting the ammeter QP5588 it is essential that the wiring instructions provided with the product are followed, or the meter may be destroyed.

	Cat.	Qty 1+	Qty 5+	Qty 10+
Ammeter	QP5588	\$47.90	\$42.90	\$38.40



PANEL METERS - MU45

Panel Meters Style MU45 - Moving Coil Type

- Overall Dimensions: 59(W) x 52(H)mm
- 44mm meter hole
- MU45
- Class 2.5

Cat.

QP5010

OP5012

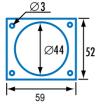
QP5013

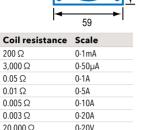
QP5014

QP5015

QP5016

OP5020 **QP5022**





0-30V



D.C. MPERES

AM

OP5013

	QFJ01		
Cat.	Qty 1+	Qty 3+	Qty 6+
Any of the above	\$21.90	\$19.30	\$16.90

HEAVY DUTY CURRENT SHUNTS

Heavy Duty Current Shunts

0.05 Ω

0.01 Ω

30.000 Q

Placed in series with a high power circuit, these shunt bars allow you to measure high current draw without needing a high current ammeter. Heavy duty brass construction and hand calibrated, they include large terminals for connection of the main circuit cables and smaller terminals for connection to a meter. Suitable for use with a standard multimeter or panel meter you simply measure the millivolts across the shunt to display the current draw of the circuit. Models are compatible with many readily available power meters.

NOTE: Care must be taken with digital panel meters and current shunts. Some meters allow their negative power input to be common with the measured supply Others require completely isolated supplies. Check the datasheet carefully.



rech talk

MANUFACTURERS: We have a shunt supplier who is impossible to beat for prices and quality. We can supply custom shunts in quantities as little as 100 pieces. Contact our wholesale supplier for details.

Cat.	Max current	Voltage at Max Current	Shunt resistance	Accuracy
QP5410	5A	50mV	$10m\Omega$	0.5%
QP5412	50A	50mV	$1m\Omega$	0.5%
QP5415	100A	50mV	$0.5 m\Omega$	0.5%
QP5417	200A	50mV	$0.25 m\Omega$	0.5%

Max current	Voltage at Max Current	Cat.	Qty 1+	Qty 5+	Qty 10+
	wax Current	Cat.	Qty i∓	Qty JT	CZLY 10T
5A	50mV	QP5410	\$22.90	\$20.90	\$17.90
50A	50mV	QP5412	\$22.90	\$20.90	\$17.90
100A	50mV	QP5415	\$29.90	\$26.90	\$23.90
200A	50mV	QP5417	\$29.90	\$26.90	\$23.90

HOW TO INSTALL A CURRENT SHUNT

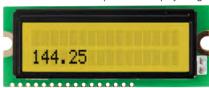
- Voltmeter is on millivolt scale
- Voltmeter connections to shunt are on each side of shunt
- If current is DC observe polarity. If AC amps connect either way
- Specs of shunt generally stamped on the shunt itself ie. 50mV/50A (volt drop across shunt) equates to 5, 10, 20A max current, etc. i.e. A 25mV reading on the millivolt meter would equate to 25A current on a 50mV/50A shunt. You can read the current straight off the millivolt scale on the meter.

LCD MODULES

LCD Panel 2 Line 16 Character Compact with Backlight & SIL Connections

This compact LCD module has 96 inbuilt ASCII characters as well as 92 special letters and 8 custom characters, which can be displayed on a 16 character by 2 line screen. It will hold the current input on the display using

its own built in memory, making it easy to drive. Connections via single in line solder pads with an independent backlight.



Specifications	QP5512					
Туре	2 line LCD					
Characters	16 x 2 lines	5				
Character Size	4.89 x 2.78	Bmm				
Viewing Angle - Vertical	Sym 0 condition: CR>=2°, Min -10° Max 40°					
Viewing Angle - Horizontal	Sym 0 condition: CR>=2°, Min-30° Max 30°					
Suply Voltage For Logic	5VDC					
Other Mechanical Data	Power supp	oly current: 2n	nA, Duty: 1/16			
Module Dimensions	66(W) x 26	(H) x 12(D)mn	n			
Viewing Display Area	51(W) x 14	.8(H)mm				
	Cat.	Qty 1+	Qty 5+	Qty 10+		
Backlight	QP5512	\$16.90	\$14.90	\$13.90		

Dot Matrix LCD Modules - Alphanumeric

Compact Liquid Crystal Diode module with ASCII (96 characters), Special Letters (92 characters) and Custom Letters (8 characters). A two line screen

displays up to 16 characters at a time and the module will hold the current display in its own inbuilt memory.



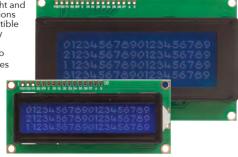
Specifications	вотн					
Туре	Alphanume	eric, 2 line LCD				
Characters	16 x 2 lines	i				
Character Size	4.89 x 2.78mm					
Viewing Angle - Vertical	Sym 0 condition: CR>=2°, Min -10° Max 40°					
Viewing Angle - Horizontal	Sym 0 condition: CR>=2°, Min -30° Max 30°					
Supply Voltage For Logic	VDD - VSS Min 4.5V Typ 5V Max 5.5V					
Backlight	Yellow gree	en				
Module Dimensions	85(W) x 30	(H) x 13.2(D)n	nm			
Viewing Display Area	65(W) x 16	(H)mm				
	Cat.	Qty 1+	Qty 10+	Qty 25+		
Without Backlight	QP5515	\$14.90	\$13.90	\$10.90		
With Backlight	QP5516	\$24.90	\$22.40	\$17.40		

Dot Matrix White on Blue LCD

A HD44780 compatible character LCD display which features white backlit text on a blue background for great readability in all conditions. It features two lines of 16 characters, and is the same module as used in our XC4454 Arduino LCD Shield. Suits XC3706 I2C Port expander.

- 0.1" SIL connector for easy breaboarding/prototyping
 Can be controlled with 6 GPIO pins
 Nominal 5V supply with max 4.5mA operating current (excluding backlight)
- Separate backlight and contrast connections
 • HD44780 compatible
- for use with many microcontrollers including Arduino
- 4 x Mounting holes Note

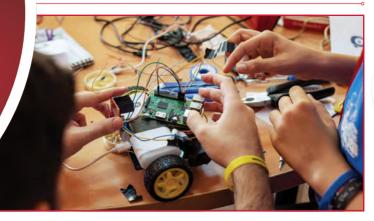
Simulated displays



	Cat.	Qty 1+	Qty 10+	Qty 25+
16 x 2 Character	QP5521	\$22.90	\$20.90	\$15.90
20 x 4 Character	QP5522	\$28.90	\$25.90	\$19.90

A82

Projects & Learning



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ARDUINO® STARTER KIT

Arduino* Starter Kit

This offical kit from Arduino* includes all the essentials to get you started in the exciting world of Arduino*. The kit includes the Arduino* UNO board, which is one of the best boards to learn about first, along with a breadboard and plenty of prototyping accessories. Components include LEDs, resistors, switches, a potentiometer, a buzzer, a motor with fan, which can make any of the five projects described in the printed user manual, and for other projects you can find online. A generous amount of coloured jumper wires are also supplied. The kit makes the perfect gift for a young electronics enthusiast or maker in the making.

The Starter Kit includes:

- 1 x Projects Book (170 pages)
- 1 x Arduino® UNO
- 1 x USB cable
- 1 x Breadboard 400 points
- 70 x Solid core jumper wires
- 1 x Easy-to-assemble wooden base
- 1 x 9v battery snap
- 1 x Stranded jumper wires (black) • 1 x Stranded jumper wires (red)
- 6 x Phototransistor
- 3 x Potentiometer 10kOhms
- 10 x Pushbuttons
- 1 x Tilt sensor
- 1 x alphanumeric LCD (16x2 characters)
- 1 x LED (bright white)
- 1 x LED (RGB)
- 8 x LEDs (red)
- 8 x LEDs (green)

- 8 x LEDs (yellow)
- 3 x LEDs (blue)
- 1 x Small DC motor 6/9V
- 1 x Small servo motor
- 1 x Piezo capsule [PKM17EPP-4001-B0]
- 1 x H-bridge motor driver [L293D]
- 1 x Optocouplers [4N35]
- 2 x Mosfet transistors [IRF520]
- 5 x Capacitors 100uF
- 5 x Diodes [1N4007]
- 3 x Transparent gels (red, green, blue)
- 1 x Male pins strip (40x1)
- 20 x Resistors 220 Ohms
- 5 x Resistors 560 Ohms
- 5 x Resistors 1 kOhms
- 5 x Resistors 4.7 kOhms
- 20 x Resistors 10 kOhms
- 5 x Resistors 1 MOhms
- 5 x Resistors 10 MOhms





	Cat.	Qty 1+	
Startor Kit	XC9200	\$199.00	

• 1 x 74HC595 Shift Register • 1 x 50k Potentiometer

2 x Light Dependant Resistors
1 x Infrared Photo Diode

• 1 x Infrared Remote Receiver

• 1 x Solderless breadboard

• 1 x 40-pin header

• 1 x 2x16 LCD Display

Analog Temperature Sensor
1 x 17 Button IR remote control

• 1 x Two channel relay module

Qty 6+

\$102.90

ARDUINO® COMPATIBLE KITS

Arduino* Compatible Starter Kit

This kit includes all the essentials to get you started in the exciting world of Arduino*. The kit includes the Arduino* compatible UNO board, which is one of the best boards to learn about first, along with a breadboard and plenty of prototyping accessories. Components include LEDs, resistors, switches, a potentiometer, a buzzer, a motor with fan, which can make any of the five projects described in the printed user manual, and for other projects you can find online. A generous amount of coloured jumper wires are also supplied. The kit makes the perfect gift for a young electronics enthusiast or maker in the making.

Box Contents:

- 1 x Duinotech UNO Arduino®-Compatible Board
- 1 x USB Cable
- 1 x Breadboard
- 5 x 5mm Red LED
- 5 x 5mm Yellow LED
- 5 x 5mm Green LED
- 4 x Tactile Switches1 x Buzzer Module
- 1 x 16mm Potentiometer
- 10 x Resistors



Arduino® compatible **UNO** board included

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
Includes UNO Board	XC3902	\$45.90	\$40.90	\$35.90

Duinotech Learning Kit - Perfect for Beginners

Looking to get into Arduino* but don't quite know where to start? We have specially selected the components in this kit to allow an easy entry into the world of Arduino* and to work with the examples included with the Arduino* IDE. There are many resources online to teach how the Arduino* software and hardware interact. This kit is also compatible with the full range of Duinotech shields and modules, which can be used to extend your Arduino® experience.

The Starter Kit includes:

- Duinotech UNO Arduino[®] Comatible Board with USB Cable
- Breadboard
- Jumper Wires
- Servo Motor
- LDR Light Sensor ModuleRGB LED Module
- Joystick Module
- Buzzer Module

- LED Matrix Module
- Line Trace Module
- Assorted LEDs
- Pushbuttons Assorted Resistors

Carry case with insert tray and dividers

Arduino® compatible **UNO** board included duinotech Cat. **Qty 1+** Qty 6+ **Qty 3+** Includes UNO Board XC3900 \$69.90 \$62.90 \$55.90

Duinotech MEGA Kit

This handy kit includes an Arduino® compatible MEGA development board, a breadboard, and an extensive range of components to make any number of exciting Arduino® related projects. The wide assortment of components has been carefully selected based on the most common Arduino* project you find online today. Input related components include switches, and sensors to detect light and temperature. Output related components include buzzers, relays, and displays. The displays include coloured LEDs, 7 segment displays, a 8x8 dot matrix, and an LCD screen. There is also an infrared remote control and receiver to make your own remote controlled projects. When not in use, the components can be safely stored away in the supplied storage organiser.

Box Contents:

- 1 x duinotech MEGA Arduino®-Compatible Board
- 1 x Solderless breadboard
- USB Cable
- 1 x 4 Digit Seven Segment Display
- 1 x 1 Digit Seven Segment Display 1 x 8x8 Dot Matrix Display
- 1 x 6AA battery holder
- Assorted Resistors
- Assorted LEDs
- RGB LED Module
- 4 x Tactile switches
- 2 x Piezo Sounders Assorted Jumpers



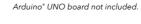
Qty 3+ Cat Qty 1+ Includes MEGA Board XC4286 \$129.00 \$115.90

ARDUINO® SENSOR KIT

Arduino* Sensor Kit with 10 Sensors plus Shield

The Arduino* Sensor Kit is made for Makers who have just started using Arduino* to explore the vast space of electronics and programming. This kit teaches how to connect and program basic Grove modules that includes both sensors and actuators along with the Arduino® UNO. Grove is an open-source, modulated, and ready-to-use toolset and takes a building block approach to assemble electronics. This Kit includes a Base Shield to which the various Grove modules can be connected both individually, or together in various combinations to create fun and exciting projects. All of the modules use a Grove connector, which connects each of

the components to a Base Shield in just a few seconds. The Base Shield can then be mounted on to an Arduino® UNO board and can be programmed using the Arduino® IDE. Instructions for connecting and programming the different modules are also included in this kit. This kit was elaborated in collaboration with Seeed Studio and provides the Arduino® community with the opportunity to build projects with minimal effort of both wiring and coding. This kit acts as a bridge to the world of Grove and provides a flexible way for Makers to extend their projects to include other complex Grove modules. The Kit comes includes access to an online platform with all the instructions required to plug, sketch and play with the different Grove Modules.







XC9201 \$69.90

ARDUINO® COMPATIBLE BOARDS

ARDUINO® COMPATIBLE BOARDS

Duinotech Classic (UNO R3)

The flagship of our duinotech family, the duinotech Classic is a 100% Arduino*-compatible development board. Its stackable design makes adding expansion shields a piece of cake. Powered from 7-12VDC or from your computer's USB port. In the past few years the Arduino* has taken the electronics world by storm. Everyone from hobbyists

to professional engineers is making use of its limitless versatility. And it's not just for tech-heads; its easy to learn programming has made the Arduino* a hit with artists and educators as well.

• Fully Arduino® UNO Compatible





duinotech

Specifications	XC4410
ATmega328P Microcontroller	Program Memory: 32kB (2KB used by bootloader) EEPROM: 512 bytes, SRAM: 2kB Speed: 16MHz
10	Digital IO: 14 pins (6 are configurable as Digital or PWM) PWM Capable: 6 pins, Analog Inputs: 6 pins Serial Ports: 1 (more supported via SoftwareSerial library)
Input Voltage	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	75(W) x 53(L) x 13(H)mm

	Cat.	Qty 1+	Qty 5+	
UNO	XC4410	\$39.90	\$35.90	

Duinotech Classic with Wi-Fi

An Arduino* compatible UNO board with an integrated ESP8266 to connect your projects to the cloud without the need for additional modules. Features the ATmega328P and standard UNO layout, and includes a set of DIP-switches to configure the serial connections.



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Specifications	XC4411	7			
Processor:	ATmega328P (16MHz)				
Memory:	32KB Flash, 2KB SRAM, 1KB EEPROM				
Connectivity:	SPI, UART, I2C, 14 Digital GPIO (6 PWM), 6 Analogue (10-bit ADC)				
ADC:	6 pins, 10-bit ADC				
Voltage:	5V with regulator on board (accepts 7V - 12V)				
ESP8266 Specifications:					
Processor:	ESP8266 32bit RISC (80MHz)				
Memory:	32MB Flash included on board				
Connectivity:	IEEE 802.11 b/g/n Wi-Fi				
IO:	SPI, I2C, I2S, UART, 5 Digital GPIO, 1 Analogue (10 bit ADC)				
Voltage:	3.3V with regulator on board (fe	d from Arduino)			
	Cat. Qty 1+ Qty	y 3+ Qty 6+			

XC4411

\$45.90

Clear Acrylic Enclosures For Arduino

Protect your Arduino* board against damage, dust and scratches with this clear acrylic enclosure. The case is easy to assemble and has been pre-drilled to provide easy access to all ports.



\$40.90

\$35.90

duinotech

UNO with Wi-Fi

	Cat.	Qty 1 +	Qty 4 +	Qty 10+
Suits UNO	XC4406	\$5.60	\$5.00	\$4.45
Suits MEGA	XC4408	\$7.90	\$7.10	\$6.30

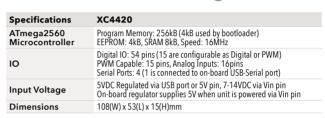
Duinotech MEGA

Boasting more IO pins, more memory, more PWM outputs, more Analog inputs and more Serial ports, the MEGA is definitely one the Leader's of the duinotech pack. When you have a project that just needs more inputs, outputs & memory than the duinotech Classic (UNO) can deliver, the MEGA has them in spades. And with 8x the program



• ATmega16U2 USB-Serial Chipset

duinotech



	Cat.	Qty 1+	Qty 5+	Q ty 5+
MEGA	XC4420	\$58.90	\$52.90	\$46.90

Duinotech MEGA with Wi-Fi

An Arduino* compatible MEGA board with an integrated ESP8266, which makes it easy to connect your projects to the cloud without the need for additional shields. Features the ATmega2560 and standard MEGA layout, and includes a set of DIP-switches to configure the serial connections.







duinotech

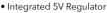
XC4421				
ATmega256	0 (16MHz)			
256KB Flash, 8KB SRAM, 4KB EEPROM				
SPI, 4x UART, I2C, 54 Digital GPIO (15 PWM), 16 Analogue (10-bit ADC)				
16 pins, 10-	bit ADC			
5V with regulator on board (accepts 7V - 12V)				
ESP8266 32	bit RISC (80N	ΛHz)		
32MB Flash	included on	ooard		
IEEE 802.11	b/g/n Wi-Fi			
SPI, I2C, I2S, UART, 5 Digital GPIO, 1 Analogue (10 bit ADC)				
3.3V with regulator on board				
Cat.	Qty 1+	Qty 3+	Qty 6+	
XC4421	\$69.90	\$62.90	\$55.90	
	ATmega256 256KB Flash SPI, 4x UAR' Analogue (1 16 pins, 10- 5V with regular ESP8266 32 32MB Flash IEEE 802.11 SPI, 12C, 12S bit ADC) 3.3V with re	ATmega2560 (16MHz) 256KB Flash, 8KB SRAM, SPI, 4x UART, I2C, 54 Digi Analogue (10-bit ADC) 16 pins, 10-bit ADC 5V with regulator on boar ESP8266 32bit RISC (80M 32MB Flash included on I IEEE 802.11 b/g/n Wi-Fi SPI, I2C, I2S, UART, 5 Digi bit ADC) 3.3V with regulator on bo Cat. Qty 1+	ATmega2560 (16MHz) 256KB Flash, 8KB SRAM, 4KB EEPROM SPI, 4x UART, I2C, 54 Digital GPIO (15 Pl Analogue (10-bit ADC) 16 pins, 10-bit ADC 5V with regulator on board (accepts 7V- ESP8266 32bit RISC (80MHz) 32MB Flash included on board IEEE 802.11 b/g/n Wi-Fi SPI, I2C, I2S, UART, 5 Digital GPIO, 1 Anabit ADC) 3.3V with regulator on board Cat. Qty 1+ Qty 3+	

ARDUINO® COMPATIBLE BOARDS

Duinotech ATtiny85 Micro USB Development Board

This tiny development board features an ATtiny85 8-bit microcontroller that you can program using the Arduino' IDE to make projects that don't need all the performance of larger development boards such as the Arduino' NANO or UNO. It has an onboard micro USB socket for programming and power, and 6 x I/O connections. Power can also be provided directly via 5V, or by using

the integrated 5V voltage regulator from a 7-35VDC supply (12V or less recommended).



- Low power
- 8k Flash Memory (about 6k after bootloader)



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
ATtiny Micro USB	XC3940	\$15.90	\$13.90	\$12.90

Duinotech Leonardo Tiny ATmega32U4 Development Board

This Arduino*-compatible development board is a smaller version of the popular Leonardo. It measures just 23 x 20mm and is a great choice when you need a low-cost and compact Arduino* project. The power and three of its analogue and digital pins go to large gold-plated tabs, making them suitable to connect alligator clips or for sewing onto clothing with conductive thread (sold separately). The board features a 32u4 ATMEL processor with a 16MHz clock, 10 x digital pins, 5 x analogue pins, 4 PWM pins, ICSP, I2C, and a serial port.

- 16MHz Clock Speed
- 32kB Flash Memory (4kB used by
- bootloader)
 1kB EEPROM Memory

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
Leonardo Tiny	XC4431	\$24.90	\$22.90	\$19.90

Duinotech Wi-Fi Mini ESP8266 Main Board

The ESP8266 based Wi-Fi Mini board packs an 80MHz microcontroller with Wi-Fi into a board not much bigger than a coin. With easy-to-add support for the Arduino* IDE, the Wi-Fi Mini is the perfect compact solution to your IoT sensor node problem. Includes 4MB of flash memory for your program and 11 digital IO pins and one analog input pin to interface to the world.

- 3.3V operating and IO voltage5V-3.3 converter onboard for operation from USB
- Arduino® Add-on available
- XC3850 Prototyping Shield available for adding extra hardware

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
Wi-Fi Mini	XC3802	\$28.90	\$25.90	\$22.90

Duinotech NANO

This is the most breadboard friendly Arduino*-compatible device you will find. Despite its small size, it packs virtually all the features of the full duinotech boards into a tiny DIP-style board that drops directly into your breadboard. It uses exactly the same ATmega328 chip as its larger cousins, so there is no need to change any of your coding. A Mini-B-USB port is easily accessible on top of the board for programming and serial communication. LEDs show power and serial status and a reset button is easily accessible. Its small DIP-style makes it easy to embed into Veroboard or custom PCBs for more

- advanced projects Fully Arduino* and duinotech Compatible
 FT232RL USB-Serial Chipset
- USB cable included
- See website for full specs

duinotech

	Cat.	Qty 1+	Qty 5+	
NANO	XC4414	\$39.90	\$35.90	

Duinotech Lite (Leonardo R3)

Most of the duinotech models use two chipsets, one for the main controller, one for USB communication. The duinotech Lite combines both these functions into a single IC. This opens the door for more advanced USB functions. Now you can have your Duinotech Lite emulate a computer keyboard, mouse, joystick and many other types of input

device. The duinotech Lite also boasts more analog inputs (12), and an extra PWM channel

- Fully Arduino® Compatible
- Built in USB-Serial

duinotech

Specifications	XC4430				
ATmega32U4 Microcontroller	Program Memory: 32kB (4 EEPROM: 1kB, SRAM: 2.5	Program Memory: 32kB (4KB used by bootloader) EEPROM: 1kB, SRAM: 2.5kB, Speed: 16MHz			
Ю	Digital IO: 20 pins (7 are of PWM Capable: 7 pins Analog Inputs: 12 pins (6 Serial Ports: 2 (1 USB, 1 Udibrary)	are shared			
Input Voltage	5VDC Regulated via USB p 7-14VDC via Vin pin On-board regulator suppli	'	in n unit is powered via Vin pin		
Dimensions	75(W) x 53(L) x 13(H)mm				
	Cat.	Qty 1+	Qty 5+		
Leonardo	XC4430	\$39.90	\$35.90		

Duinotech Lilypad Plus

An all-in-one Arduino*-compatible board to add dazzling effects to your next project or costume. The round-shaped board features ten mini RGB LEDs, a motion sensor (accelerometer), temperature sensor (thermistor), light sensor (phototransistor), microphone, buzzer, left and right push-buttons, slide switch, and more to suit a wide variety of applications. The fourteen power and I/O pads around the edge of solution applications. The fourteen power and I/O pads around the edge of the board are alligator clip friendly for prototyping purposes, can be soldered, mounted with metal screws, or sewn into your costume using conductive thread (sold separately). The onboard ATmega32u4 8-bit AVR microcontroller runs your Arduino*code, and the eight I/O connections include Serial TX, Serial RX, I2C (SCL & SDA) and four GPIO pins. Program and power the board from USB or 3.3VDC.

A battery pack (6V max.) can also be connected to make your project completely portable. The USB port has HID support to act like a keyboard, mouse, joystick or MIDI, and the eight non-power related pads can be used as capacitive touch applications.

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3920	\$39.90	\$35.90	\$31.90

Duinotech Wearable ESP32 Development Board

With this compact yet powerful ESP32 wearable development board, you can take your costumes and wearable technology to the next level, including Smartphone control. The board has all the features of an ESP32 including Wi-Fi and Bluetooth*, but on a 56mm diameter board that can be sewn onto fabric or similar material using conductive thread (sold separately).

There is a provision to connect a rechargeable battery for portable applications, and programming is performed easily via the onboard micro USB port with the Arduino*IDE through the ESP32 add-on.

duinotech

Qtv 1+ Qtv 3+ Qtv 6+ XC3810 \$40.90 \$35.90 \$45.90





Raspberry Pi Compatible

RASPBERRY PI VS ARDUINO®

ARDUINO® COMPATIBLE BOARDS

ESP32 Main Board with Wi-Fi and Bluetooth®

The ESP32 is a powerful dual core microcontroller featuring Wi-Fi and Bluetooth*, and thanks to the efforts of the Arduino* community, is able to be programmed with the Arduino* IDE through the ESP32 addon. It has 512kB of RAM, 4MB of flash memory and heaps of IO pins with features like 12 bit ADC, 8 bit DAC, I2S, I2C, touch sensor and SPI. This is the next step up if a standard AVR based Arduino* isn't powerful enough to do what you need.

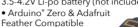
- 3.3V operating and IO voltage5V-3.3 converter onboard for operation from USB
- Arduino® Addon available (installation required)
- Micropython firmware available

Bluetooth

	Cat.	Qty 1+	Qty 3+	Qty 6+
ESP32 with Wi-Fi & Bluetooth®	XC3800	\$45.90	\$40.90	\$35.90

SAMD21 Wireless Development Board

A compact Arduino[®] compatible board with an integrated W600 A compact Arduno Compatible board with an integrated wood Wi-Fi module, making it ideal for compact and low-power loT projects. It features 6 analog and 14 digital pins, a UART, I2C, and ICSP port. It has a USB Type-C socket for 5V power and programming, and there is also provision to connect and charge a 3.5-4.2V Li-po battery (not included) for portable applications.



• 2.4GHz onboard Wi-F module supports 802.11 b/g/n







duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
SAMD21 Wireless	XC3812	\$79.90	\$71.90	\$63.90

ARDUINO® VS RASPBERRY PI **DIFFERENCES, STRENGTHS & WEAKNESSES**



If you're new to this technology, you might be a little confused around what the primary differences are, and how they're used. While there are certainly many similarities on the surface, the reality is that these are more like "compatibilities", than fundamental similarities.

Raspberry Pi and Arduino* both represent different corners of programming and computing. While there's certainly some crossover in what you can make with them, many projects will squarely suit one or the other. Just as a semi-trailer is better at hauling freight than taking kids to school, Raspbery Pi and Arduino* Compatible hardware will suit certain projects over others too. Here's a little information to help you figure it out.

RASPBERRY PI OVERVIEW

Raspberry Pi is a mini computer, essentially like a low-powered version of your computer at home. They often run a simplified version of Debian Linux called Raspbian, which makes it great for running multiple applications and has support for Full HD 1080p graphics, even 4K for the latest Raspberry

Raspbian provides you with a user interface just like a regular computer, so you can use a mouse and keyboard to surf the internet, work on spreadsheets, code websites, and so much more.

Overall this provides power and flexibility for your applications, however increases power consumption and can be less stable (just like your computer) due to complexity.

 $\label{thm:computer} \textbf{Type:} \ \ \text{Very much like a full-size computer including operating system with multi-tasking and regular HDMI support for using a monitor.}$

Coding: Edit and recompile code in-place, in a variety of languages. The most popular language for development on a Raspberry Pi is Python.

Power: A full size Raspberry Pi 4 requires a 15W power supply. That's quite a lot of power for battery-powered projects. Some smaller Raspberry Pi boards (such as Zero W) use less power, and can get down to around 0.5W by shutting off the display ports and such.

Storage: Onboard microSD provides an easy route to store data. If that's not enough you can attach an external USB hard drive (or multiples) for virtually unlimited direct-attached storage.

Connectivity: Rich peripherals such as cameras and displays are fundamentally supported as well as network (Wi-Fi or wired) on most

Functionality: Linux packages are often available for powerful functionality such as Machine Learning, web servers, network management, and so much more. Due to the popularity of Raspberry Pi, many common requirements have Raspbian-dedicated packages

GPIO: The GPIO (general purpose input output) interface provides great hardware attachment for inputs such as sensors and switches, as well as outputs such as LEDs and motors.

Open Source: Raspberry Pi uses open source software, but is not open hardware. While some imitators do exist, you'll more than likely be using official Raspberry Pi hardware. This has the benefits of compatability and reliability, but some in the community are frustrated with the lack of flexibility in what is a very "sharing" community.

Communications: Easy interface with virtually all communication protocols making peer to peer and API integration fairly simple. Support for SSL and other secure transmissions is generally no issue, howeve more complex functions may reach processor limitations.

Applications: Ideal applications: media centres, home automation projects, AI / Machine Learning education, cloud-controlled cameras, complex user-interface projects, and so much more.

ARDUINO® OVERVIEW

Arduino* compatible hardware is essentially just a microcontroller. Arduino*-compatible hardware comes in all shapes and sizes, so it really needs to be considered as an approach to programmable hardware, than a specific capability or product.

Arduino* is like a versatile version of embedded electronics that you'd find in your microwave, a digital timer, a home router, many kids toys, and much

Arduino* boards essentially run one application at a time, which is programmed directly on to the board itself. This "single minded" approach means the software you develop can run reliably for very long periods and automatically starts going again if the board is power cycled too.

Type: Single application / single threaded programming approach. Great for simple, reliable hardware operation. Screen connection is possible with compatible hardware, however no rich graphics or video.

Coding: Requires a host computer (or capable hardware) to edit and recompile code. Primary language is C++ in the Arduino* programming environment. It is possible to use other languages but less common.

Power: Generally quite low power consumption, with very simple options to reduce overall usage to mere micro-amps, in certain cases (mostly depending on attached hardware).

Storage: A storage shield is generally required in order to expand beyond the limited onboard memory for Arduino compatible hardware. If you're using a Wi-Fi/Ethernet compatible board, pushing data to the cloud is generally easiler where possible.

Connectivity: Some boards include onboard Wi-Fi, with sheilds available to extend functionality if required.

Functionality: There are many code libraries available in the Arduino® community which expand functionality and simplify peripheral connection. However this does not extend to generalised computing as Arduino* hardware is not really suitable for this purpose.

GPIO: The GPIO (general purpose input output) varies based on the board you're using, however they're generally very powerful with more

Open Source: Arduino* is entirely open source and open hardware, so you may or may not be using official Arduino* hardware. There are more Arduing that the standard and the standard and the standard are standard and the standard are standard and the standard are standard and the standard and the standard are standa boards. Because they're open hardware, most board designs are virtually identical to official versions, with differences mostly cosmetic only.

Communications: Supports a good variety of external communications including for use with APIs and peer-to-peer systems. However some aspects such as supporting secure socket layers (SSL) can overload the microcontroller depending on the data and complexity / frequency.

Applications: Popular uses: environment sensors, retrofitted smart devices, lighting controllers, servo controllers, simple robots, simple user interface controls, intelligent control management projects, and so much

RASPBERRY PI & ACCESSORIES:

Our range of Raspberry Pi products and compatible accessories continues to grow. We have added the more powerful Pi 4B 8GB SBC to the range and the Pi 400 computer/keyboard all-in-one, which is great for anyone just starting their Raspberry Pi journey. We will continue to expand the range so make sure you keep an eye on our website for more exciting new Pi products.

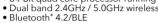


Raspberry Pi 3B+ Single Board Computer

The latest product in the Raspberry Pi3 range.

Modular compliance certification allows the board to be designed into end products without the need for further wireless compliance

• 64-Bit quad core processor running at 1.4GHz



p.A89

switchmode



	Cat.	Qty 1+		
Raspberry Pi 3B+	XC9001	\$99.90		

Raspberry Pi Starter Kit

The Raspberry Pi has been designed as a computer that anyone can use. If you want to get started with a Raspberry Pi, but don't know where to start, then this kit has just about everything you need. Ideal for those starting out, or even as a basic educational computer for a student. You will also need a USB keyboard, mouse, HDMI monitor/
TV & HDMI cable. Includes Raspberry Pi 3B, acrylic case, power supply, USB cable, Getting Started Guide, Book (Programming the Raspberry Pi: Getting Started with Python), and microSD card loaded with NOOBS software



	Cat.	Qty 1+
Raspberry Pi Starter Kit	XC9010	\$169.00

Raspberry Pi 4B Single Board Computer

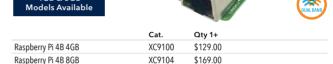
Developed in the United Kingdom by the Raspberry Pi Foundation to promote teaching of basic computer science in schools.It is powered via a USB-C port, enabling additional power to be provided to downstream peripherals, when used with an appropriate PSU.

• 1.5 GHz 8GB 64-Bit Quad Core ARM Cortex-A72 Processor

- On-Board 802.11ac Wi-Fi
- Bluetooth® 5
- Full Gigabit Ethernet

4GR & 8GR

- 2 x USB 2.0 ports
- 2 x USB 3.0 ports
- Dual Monitor Support (4K resolution)



Raspberry Pi 400 Keyboard Desktop Computer

The Raspberry Pi 400 (Australian Keyboard Layout) puts the power of a Raspberry Pi 4 (4GB RAM) inside a keyboard in a layout any retro home-computer fan will be familar with. Whilst the "Keyboard Raspberry Pi" layout was clearly inspired by the iconic Commodore 64, the quad-core 64-bit SoC (ARM Cortex-A72 @ 1.8GHz) makes the C64's chip look like a Dorito. The combination of the fast CPU and 4GB memory makes the Raspberry Pi 400 perfect for everything from retro-computer games to thin clients. You can connect the Pi 400 to any modern Monitor TV via HDMI for crisp 4K HD visuals.

• Dimensions: 286(L) x 122(W) x 23(D)mm



16GB NOOBS SD Card for Raspberry Pi

A 16GB microSD card with fullsize SD card adapter preloaded with the NOOBS software, allowing easy install of the standard Raspbian operating system. Great option for beginners who aren't comfortable imaging their own cards. Also includes Librelec media player as an install option.

Cat

XC9115

The following operating systems are also able to be downloaded and installed by NOOBS (internet connection needed):

- Raspbian Lite
- Lakka
- OSMC Screenly
- Windows 10 IOT Core



Qtv 1+



	Cat.	Qty 1+	
16GB NOOBS SD Card for RPi	XC9030	\$28.90	

Compatability Icons

To assist you in selecting compatible products for your preferred microcontroller, we have created two icons. They should help you select appropriate modules and hardware. If in doubt, ask our friendly team.





Raspberry Pi Compatible

RASPBERRY PLACCESSORIES

RASPBERRY PI ACCESSORIES CONTINUED

Power Supply for Raspberry Pi 4

This switchmode power supply delivers 15.3W (5.1V/3A) of power as per Raspberry Pi 4 specifications. The 1.5m lead is terminated with a USB Type-C plug and has a handy inline ON/OFF switch.



Qtv 5+

\$22.90

\$20.90

USB Type-C	XC9122
Danier Cumple	

Power Supply for Raspberry Pi 3B+

Specifications

Output

Input

Power

Cable length

This switchmode power supply delivers 12.7W (5.1V/2.5A) of power needed for your Raspberry Pi 3B, it can also be used for other USB-powered devices with a Micro B USB socket, including some Arduino* hardware, Bluetooth* speakers, and more. The 1.5m lead is terminated with a USB Micro B plug.

Cat

Qtv 1+

\$25.90

• Designed to take full advantage of the improved power management on the Raspberry Pi 3B+

- 1.5m lead with Micro B USB connector
- Use with Raspberry Pi, charge power banks, portable speakers etc
- SAA approved and MEPS compliant

			_	
Specifications	MP3536			7
Input Voltage	100-240VAC	-	4	
Output Voltage	5.1VDC			
Output Current	2.5A	YEAR		
Cable Length	1.5m	WARRANTY		
	Cat.	Qty 1+	Qty 5+	Qty 10+

Prototyping Hat for Raspberry Pi

This prototyping hat for Raspberry Pi has a main area with gold plated holes that are spaced at the standard 2.54mm, making this ideal for use with DIP packaged ICs or sensors. Around the side of the board are 0.1" header strips and screw down terminals that tap into the GPIO, power and other interfaces for temporary (but robust) connection of components or wiring that can be easily removed. It also has a large prototyping area for PTH and SMD components.

MP3536

\$25.90

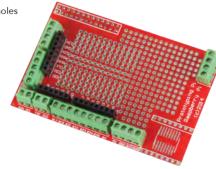
\$22.90

\$20.90

- Large prototyping area for PTH/SMD components
- Screw Terminals

USB Micro B

- Header connections Gold plated holes
- 2.54mm spacing of holes
- 26 pin GPIO
- SOİC Breakout
- Dimensions: 85(W) x 56(L)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Prototyping Hat for Raspberry Pi	XC9040	\$17.90	\$15.90	\$13.90

GPIO Expansion Kit

If you want to delve into the prototyping of hardware for the Raspberry Pi, then the GPIO expansion kit is a necessity. Using a colour coded rainbow ribbon cable, all 40 GPIO pins are broken out to a header which can be plugged straight into a breadboard. The header is clearly labelled with each pin name, making breadboarding of circuits super easy.



			_		
	Cat.	Qty 1+	Qty 3+	Qty 6+	
GPIO Expansion Kit for RPi	XC9042	\$14.90	\$13.90	\$11.90	

Dual Card Adaptor For Raspberry Pi

Insert the SD card switch into your Raspberry Pi to switch between operating systems on separate microSD cards.

Please note: You must turn off the Raspberry Pi before switching the SD card. Failure to do so will damage the SD card.



			111	ac-sa
Specifications	XC9034			1-11
Card Slot Size	microSD		HILL	16/11
Max Card Size	32GB	U		
Required Power	None			
Dimensions	36 x 24mm			
	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC9034	\$33.90	\$29.90	\$26.90

GPIO Expansion Shield for Raspberry Pi

This GPIO shield fixes on top of your Raspberry Pi so you can add high-precision AD/DA functions to your Raspberry Pi and connect multiple devices at the same time. The on-board PCF8591 IC provides four 8-bit analogue-to-digital converters and a single 8-bit digital to analogue converter.

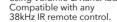
- Four x ADC, 1 x DAC
- Operates through the I2C interface on the Raspberry Pi
- Includes mounting hardware and spacers
- Dimensions: 66(L) x 57(W) x 19(H)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
XC9050	\$16.90	\$14 90	\$13.90

Audio DAC Module for Raspberry Pi

This simple DAC can be used to create your own Raspberry Pi based music player or just improve the sound quality from your Raspberry Pi. Plugs directly onto your Pi & requires minimal setup using Volumio & RuneAudio.





			7/	
Specifications	XC9048			
Sampling Frequency	384kHz			
Resolution (Bits)	16-32			
Digital Audio Interface	I2S			
SNR	120dB			
THD	-93dB			
Dynamic Range	112dB			
IR Receiver	38kHz			
	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC9048	\$79.90	\$71.90	\$63.90

RASPBERRY PI ACCESSORIES CONTINUED

3.7V 3800mAh Li-ion Battery Pack

Make your Raspberry Pi project completely portable with this power expansion board with Li-ion battery pack. The expansion board is designed to attach directly below your Rasberry Pi and provide power from the 3800mAh Li-ion battery. Features two USB ports to power the RPi and another USB device, power switch, power and charging status LEDs, and an integrated charging module. Simply charge from an available USB port through the onboard micro USB socket. Mounting hardware included.

- High capacity 3.7V Li-ion battery included
- Onboard charging circuit
- Dual USB outputs





Specifications	XC9060		T	
Battery Capacity:	3800mAh			
Max Discharge Current:	1.8A			
No-Load Output Voltage:	5.1V			
Charging Current:	1A			
Cut-off Voltage:	4.18-4.2V			
Dimensions:	85(L) x 56(W)mm			
	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC9060	\$33.90	\$29.90	\$26.90

Stackable Header For Raspberry Pi

One of the essentials for building your own custom hat for Raspberry Pi. Perfect fit for the 40 pin GPIO header. Can also be used to break out a DIL connection to a breadboard by bending the pins slightly.



Extended body for extra spacing

,		5				
		Cat.	Qty 1+	Qty 4+	Qty 10+	
		HM3228	\$5.80	\$5.20	\$4.60	

RTC Clock Module

The XC9044 is a tiny RTC module which uses I2C to communicate with the Raspberry Pi. Once set up, it can be used to provide a battery backed clock source, and is ideal for situations where the Pi may be powered off and on or out of range of Wi-Fi where it cannot get a reliable time fix

• Five Pin header that plugs straight onto the Pi's GPIO pins I2C interface based on highly accurate DS3231 IC



	Cat.	Qty 1+	Qty 4+	Qty 10+
RTC Clock Module for Raspberry Pi	XC9044	\$10.90	\$9.90	\$8.90

5V PoE Power Splitter

This device splits the PoE into a regular ethernet plug and microB USB power plug. Provides 5VDC to power devices like Raspberry Pi or Arduino*.





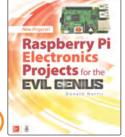
	a series				
Specifications	YN8416			*******	
PoE Voltage Input	44-57V				
Voltage Output	5VDC@2.4A m	ax			
Connectors	1 x RJ45 PoE S 1 x RJ45 Ether 1 x MicroB US	net Plug			-
PoE Standard	IEEE 802.3af				
Data Rate	10/100Mbps				YEAR
Dimensions	88(L) x 30(W)	x 26(H)mm			WARRANTY
		Cat.	Qty 1+	Qty 4+	Qty 10+
5V Micro USB Plug		YN8416	\$29.90	\$26.90	\$23.90

RASPBERRY PI BOOKS

Raspberry Pi Projects for Evil Genius

Each Evil Genius project includes a detailed list of materials, sources for parts, schematics, and clear, step-by-step assembly and programming instructions. Readers will get up and running right away by learning how to program a touchscreen, interface with an Arduino processor, build a fully working cell phone—even build a super computer using a cluster of Pis! Advanced projects include a Software Defined Radio, robot controller, robotic arm, point-and-shoot camera, and a complete infrared surveillance system.

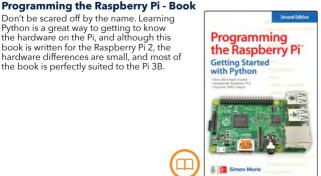




	Cat.	Qty 1+	
RPi Projects for the Evil Genius	BM7162	\$64.90	

Don't be scared off by the name. Learning Python is a great way to getting to know the hardware on the Pi, and although this

book is written for the Raspberry Pi 2, the hardware differences are small, and most of the book is perfectly suited to the Pi 3B.

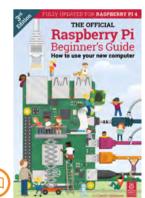


	Cat.	Qty 1+		
Programming the Raspberry Pi	BM7160	\$39.90		

Raspberry Pi Beginner's Guide Book - 3rd Edition

The Raspberry Pi is a small, clever, British-built computer that's packed with potential. Made using the same technology you find in a smartphone, the Raspberry Pi is designed to help you learn coding, discover how computers work, and build your own amazing things. Fully updated for Raspberry Pi 4, this book was written to show you just how easy it is to get started. Learn how to:

- Set up your Raspberry Pi, install its operating system, and start using this tiny, fully functional computer.
- Start coding projects, with step-by-step guides using the Scratch and Python programming languages.
- Experiment with connecting electronic components and have fun creating amazing projects.



	Cat.	Qty 1+
3rd Edition	BM7164	\$31.90

If you have a technical friend or someone who may be just interested in some of the products we stock, tell them to email their address details to:

CATALOGUE DEPARTMENT - JAYCAR:

catalogue@jaycar.com

A90 Freecall order hotline: 0800 452 922 jaycar.co.nz

RASPBERRY PLACCESSORIES

RASPBERRY PI ACCESSORIES CONTINUED

Enclosure for Raspberry Pi 3B

If you're using your Raspberry Pi as a computer, you probably don't want all the pins and wires exposed to short out. This compact case is the perfect thing for protecting your Pi in fact it wouldn't even look out of place sitting next to your TV if you are using the Pi as a media computer. It has openings for the USB, HDMI, Ethernet, 3.5mm, Micro USB and microSD card ports on the Pi, and includes four screws to secure the case closed. The removeable end panel features cooling holes, and overall, the case is only millimetres longer than the Pi itself. If you do want to tinker with your Pi, the top can be removed to allow access to the GPIOs and other headers. For easier access to the GPIO pins and other headers, see XC9004.

Base, Lid, End Panel with vent holes & fixing screws



Clear Acrylic Case for Raspberry Pi 3B with GPIO Access

This simple snap-together enclosure is the perfect way to protect your Raspberry Pi, but still be able to easily access the GPIO pins and other headers. The crystal clear acrylic doesn't hide anything, and if you are going to be connecting and disconnecting things, then this enclosure will keep your Pi from shorting out, while still allowing access via the hinged lid. For semi-permanent setups, there are slots in the lid for the GPIOs, Camera header and Display header. Another hole directly above the processor provides ventilation and allows mounting a small cooling fan.

Includes:

- Six plates with cutouts for all Raspberry Pi connections
- Mounting nuts and bolts
- · Insulating spacers

	Cat.	Qty 1+	Qty 4+	Qty 10+
Clear Acrylic Enclosure for RPi3	XC9004	\$10.90	\$9.90	\$8.90

VESA Mount Case to suit Raspberry Pi 3B

Mount your Raspberry Pi 3B+ securely to the back of your monitor or TV. The perspex case is compatible with 100 x 100mm VESA mounts, and fits a 30mm fan (YX2500 sold separately) if cooling is required. Mounting screws included.

• Perspex

- Includes mounting screws
- Fits a 30mm fan (YX2500)

				7
Specifications	XC9003			
VESA mounting holes	100 x 100mm			
Dimensions	122(L) x 112(W) x 3	0(D)mm		
	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC9003	\$19.90	\$17.90	\$15.90



Official Raspberry Pi 3B Case

This is the official case for Raspberry Pi 3B designed by the Raspberry Pi Foundation. The snap-together case requires no tools and has numerous removable panels to allow access to GPIO pins and other internal connections such as the camera port. Deep slot for easy access to microSD card.

- · Stylish red & white design
- Easy no-tools assemblyProtect your Pi
- Light pipes for activity
- Four rubber feet included



	Cat.	Qty 1+	Qty 4+	Qty 10+
Suits Raspberry Pi 3B	XC9006	\$16.90	\$14.90	\$13.90

Official Raspberry Pi 4B Case

The official Raspberry Pi case suitable for the Raspberry Pi 4 Model B.

- ABS Construction
- Removable Side Panels Note: Raspberry Pi not included



	Cat.	Qty 1+	Qty 4+
Suits Raspberry Pi 4B	XC9110	\$19.90	\$17.90

Heatsink for Raspberry Pi 4B

Heatsink for Raspberry Pi 4B to assist with heat dissipation to keep your Raspberry Pi cool.

• 30 x 40 x 5mm





	Cat.	Qty 1+	Qty 4+	Qty 10+	
Each	HH8586	\$4.90	\$4.40	\$3.90	

Copper Heatsink for Raspberry Pi 3B

If you've got your Raspberry Pi doing some intensive work like running a media player or mining cryptocurrency, then heatsinks can help to dissipate some of that extraneous heat that is generated. Can even be used on motor driver ICs or other power ICs and

- Self-adhesive pads for peel & stick use
- PGA works well for all airflows including convection only

	Cat.	Qty 1 +	Qty 4+	Qty 10+	
Pack of 2	HH8584	\$8.90	\$8.00	\$7.10	

Heatsink Case with Dual Fan for Raspberry Pi 4B

This precision metal heatsink case is so well made; it really needs to be marvelled at. It consists of two machined halves, one 1/2 fitted with two tiny heat extraction fans. Metal pads (part of the upper

fan heatsink) are meant to touch the top of the processors to draw heat directly from them via thermal pads supplied. There is no better way to do





Specifications	XC9112	XC9112					
Dimensions	100(L) x 75(W) x 35(I	100(L) x 75(W) x 35(H)mm					
	Cat.	Qty 1+	Qty 4+	Qty 10+			
	XC9112	\$39.90	\$35.90	\$31.90			

TOUCHSCREENS FOR

RASPBERRY PI:

Touchscreens are a great way to provide an intuitive user interface, and with the Raspberry Pi this is as easy as connecting any one of the touch screens from our range offering 2.8", 5" and 7" screens. The 2.8" and 5" Touch screens utilize Resistive Touch technology, with a pen option offering single touch operation. The 7" Touch screen utilizes advanced capacitive touch technology giving you the full multitouch capabilities.

2.8" Touchscreen

This compact 2.8 inch screen provides 320 x 240 resolution and includes resistive touch functionality. It creates a small but functional user interface capable of displaying and controlling a Raspbian desktop. Low power requirement, powered directly from the GPIO pins. Custom image/ kernel drivers required for operation.

- Plugs straight into the top of Raspberry Pi
- 320x240 pixel

2.8"

Resistive touch

Specifications	XC9022
Screen	2.8", 320x240 Pixels, TFT
Voltage	3.3-5V



Cat.	Qty 1+	Qty 3+	
vcooss	¢22.00	¢20.00	

3.5" Touchscreen with Enclosure & Stylus

Perfect for prototyping or to set up a portable device with your Raspberry Pi 3B+. The 3.5" LCD touchscreen requires minimal setup. Supplied with a handy stylus and protective case. Raspberry Pi 3B+ sold separately



Resolution	48	480 x 320		
Cat.	Qty 1+	Qty 3+	Qty 6+	
XC4631	\$56.90	\$50.90	\$44.90	

5" Touchscreen with HDMI and USB

This 5 inch LCD screen has a resolution of 800x480. It can connect directly to a Raspberry Pi and can connect to any other HDMI source that outputs the native 800 x 480 resolution, via the built-in HDMI port. It also includes a resistive touch interface via the GPIO header. This module is designed to connect directly to the top of a Raspberry Pi, with a small HDMI double plug that locks the two together, but it can be used as a standalone display powered via the micro USB socket on the display. A backlight with switch is included. Now you can add a compact second display to your HDMI device, or make your own portable display device. Some display and driver configuration may be needed for operation.

- 5 inch with resistive touch
- 800x480 pixel
- HDM
- Touch interface GPIO only

Specificati	ions		XC90	24			
Screen			5", 800x480 Pixels				
Inputs			HDMI, Resistive Touch				
Supports			Raspbian for touch, video via HDMI at 800 x 480				
Weight			175g				
Dimension	s		121(W) x 78(H)mm				
	Cat.	c	Ωty 1+	Qty 3+	Qty 6+		

XC9024



\$119.00 \$106.90

7" Touchscreen with HDMI and USB

This 7 inch LCD screen has a resolution of 1024x600. It can connect directly to a Raspberry Pi as well as to any other HDMI source that supports the native 1024 x 600 resolution, via the built-in HDMI port. It also includes a capacitive touch interface. This module is designed to connect directly to the top of a Raspberry Pi, with a small HDMI double plug that locks the two together, but it can be used as standalone display powered via the micro USB socket on the device. A back-light with switch is included. Now you can add a compact second display to your HDMI device, or make your own portable display device. Turn the Pi plus monitor combination into your own portable computer, small enough to install in a car, or even a custom 3D printed case. Some display and driver configuration may be needed for operation. This display works with Microsoft Windows* versions up to Windows* 10, and supports 5 point touch input (with the exception of Windows* XP which has single point touch).

- 7 inch
- 1024x600 resolution
- S
- 0



	0		
Specifications	XC9026		
Screen	7", 1024x600 Pixels		
Inputs	HDMI, USB Capactive Touch		
Supports	Raspbian, Ubuntu, Kodi, Windows 10 IOT or XP (one touch point), Windows 7, Windows 8 and Windows 10 (5 Point Touch)		
Touch	Five-Point Capacitive		
Weight	380g		
Dimensions	165(W) x 124(H)mm		

Capacitive touch s Switchable backlig				GPIO27	13	14	Groun
HDMI input Powered via one o other ports is for to			orts. The	GPIO22	15	16	GPIO
Mounting tabs in e	each corne	er		3V3 Power	17	18	GPIO2
				GPIO10 SPI0_MOSI	19	20	Groun
				GPIO9 SPI0_MISO	21	22	GPIO2
				GPIO11 SPI0_SCLK	23	24	GPIO8 SPIO_CI
				Ground	25	26	GPIOZ SPIO_CI
				ID_SD I2C ID EEPROM	27	28	ID_SC 12C ID E
			7	GPIO5	29	30	Groun
pecifications	XC902	26 4x600 Pixels		GPIO6	31	32	GPIO ²
creen iputs	, ,	JSB Capactive	e Touch	5.153	\bowtie		
iputs	Rasnhia	n. Ubuntu. K	odi.	GPIO13	33	34	Groun
upports	point), V	rs 10 IOT or X Vindows 7, V Idows 10 (5 I		GPIO19	35	36	GPIO ⁻
ouch	Five-Poi	nt Capacitive		GPIO26	37	38	GPIO
/eight	380g			0.7020		9	G. 101
imensions	165(W)	x 124(H)mm	1	Ground	39	40	GPIO2
Cat.	Qty 1+	Qty 3+	Qty 6+				
XC9026	\$169.00	\$151.90	\$134.90				
				Freecall c	order h	notlin	e: 080

RASPBERRY PI Below is th epinout diagram of the Raspberry Pi 3B & 3B+. You'll find this diagram handy if you're prototyping. 3V3 1 2 GPIO2 5V 3 4 GPIO3 5 6 Ground GPIO14 UARTO TXD 7 8 GPIO4 GPIO15 9 10 Ground GPIO18 11 12 GPIO17 nd 23 24 nd 25 CEO_N CE1_N EEPROM nd 12 nd 16 20 21

5'

\$94.90

FOR MICROCONTROLLERS AUDIO & SOUND:

People are accustomed to communicating with sound, and it makes sense for our Arduino* to do the same thing. From generating a warning simple tone or responding to a noise through to playing back a recorded message, there are a variety of Arduino* modules and shields for making and detecting sounds.

Active Buzzer Module

Use this module to generate sound from your Arduino*; libraries are available to produce different tones and frequencies.

- Operating voltage 5VDC
- Active speaker
- 3 pin header
- Dimensions: 25(L) x 15(W) 10(H)mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4424	\$5.80	\$5.20	\$4.60

Microphone Sound Sensor Module

This unit is highly sensitive with the added advantage of having two outputs. An analogue output for real time microphone voltage signal, and a digital output for when the sound intensity reaches its threshold. Great to turn your Arduino* into a voice recorder or vox.



- Sensitivity potentiometer adjustment
- Dimensions:

43(L) x 16(W) x 13(H)mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4438	\$8.90	\$8.00	\$7.10

2 x 3W Amplifier Module

This remarkably small module provides a complete 2 x 3W stereo audio amplifier. Ideal for driving small speakers and earphones. Requires no external components.

- Operating Voltage: 2.5-5.5VDC
- Output Power: 2x3W @ 4ohm
 Efficiency: >90%
 Uses PAM8403 IC.

- Amplifier type: Class-D
- Dimensions: 23(W) x 16(D) x 2(H)mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4448	\$5.60	\$5.00	\$4.45

Audio Amplifier Module with Speaker

An easy way to add audio effects or music to your next project. The compact board measures just 47mmm long and features a 23mm diameter speaker, 2W amplifier, and a trimpot for volume control. Powered from 5V.

Note: Before use, please adjust the sound volume to minimum to avoid damaging the speaker.

duinotech

domotecn			F1	
Specifications	XC3744		6	
Power	5VDC, 500mA		Ro-	
Output Power	2W (0.15WRMS)	- Jack	AT AT	
Freq. Response	800Hz - 4kHz	Mei	Mary July	UT
Sensitivity	80dB	7		
Dimensions	47(L) x 30(W)mm		1	
	Cat.	Otv 1+	Otv 3+	Otv 6-

XC3744

	Arduino*
(VY)	Compatible



\$9.90

\$8.90

\$10.90

MP3 Audio Player Module

This audio module can play MP3, WAV, or WMA files from an onboard microSD card (sold separately). A built-in amplifier can power an 8-ohm speaker, and a 3.5mm audio socket is also provided for private listening using your headphones or connection to an external amplifier. Control the audio using the six integrated tactile switches or via the UART serial communications interface. A micro USB interface enables you to access the microSD card and download the music.





Cat.	Qty 1+	Qty 3+	Qty 6+
XC3748	\$16.90	\$14.90	\$13.90



Buying Online? Use Paypal!

greeting, keeping everyone entertained. There is some soldering and careful assembly required to complete this project.



jaycar.co.nz/christmas-clock

You can use PayPal for any online orders, for delivery or 1hr Click and Collect pickup, Just select PayPal during checkout for added convenience!

FOR MICROCONTROLLERS

MP3 PLAYBACK/RECORD:

Record & Playback Module

Add sound to your Arduino® without the complexity of MP3 modules and SD cards, using the ISD1820 based record and playback Module. Includes an on-board microphone and can drive a small speaker directly.

• Records up to 10 seconds

- Control playback from module buttons or digital inputs
- Works on 3.3V or 5V
- Can work in loop or single play mode
- Dimensions: 54 x 38 x 10mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4605	\$11.90	\$10.70	\$9.50



ULTRASONIC THEREMIN PROJECT WITH ARDUINO®

This project is ideal for the musically inclined. Just like a traditional Etherwave-Theremin, this theramin plays back samples



jaycar.co.nz/diy-ultrasonic-theremin

FOR MICROCONTROLLERS

WI-FI/NETWORK/COMPUTER:

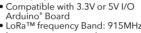
You might think it's a bit of a stretch to put an Arduino* in the same category as a computer, but with the right modules and shields, you can almost be on the same level. With a Wi-Fi or Ethernet connection, your Arduino* can be serving up web pages or communicating over great distances. Add a USB host shield, and connect a keyboard or mouse, and you've got an easy to use interface for your next project.

Low Cost Long Range Data Communications

LoRa[™] is a powerful new technology enabling secure wireless data communications over long distances even several kilometres without the need of a mobile GSM network. LoRaTM can be used in many outdoor or indoor applications, such as building automation, weather monitoring, irrigation systems control, smart metering, smart cities, and much more. For more information about LoRaTM visit www.lora-alliance.org

LONG RANGE LORA SHIELD CAT. XC4392

The Arduino® Compatible Long Range LoRa™ shield turns your Arduino® into a LoRa™ node capable of transmitting and receiving data over long distances, even several kilometres, without the need of a GSM network. The perfect solution to your remote sensor and control projects. An external antenna is included.



- Low power consumption
- Includes external Antenna (via I-Pex connector)



Note: Radio transmitting devices must be used in accordance with Australian Communications & Media Authority guidelines (www.acma.gov.au)

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4392	\$56.90	\$50.90	\$44.90

USB Host Expansion Board

Brings the ubiquitous USB Host connectivity to your Arduino* project. This shield even supports Google Android* ADK allowing connections to Smartphones and Tablets. The USB port can also be used with a USB hub.

- Supports HID: keyboards, mice, joysticks, etc.
 • Supports mass storage
- devices: USB sticks, memory card readers, external hard drives, etc.
- Dimensions: 55(W) x 54(D) x 23(H)mm



duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4456	\$45.90	\$40.90	\$35.90

Yun Wi-Fi Shield

The Yun Shield is a complete compact Linux computer based on the Open WRT firmware which can be controlled by your Arduino' Main Board. It features Wi-Fi, ethernet, USB and Serial interfaces. Connect a 3G dongle to provide connectivity for your Arduino on the go, or use it as a gateway for your IoT projects. Can also program an attached Arduino* board via Wi-Fi.



• Web configuration interface

• 77 x 54 x 26mm



duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+	
XC4388	\$79.90	\$71.90	\$63.90	

SKETCHES DEFINED

The sketch is the program that is compiled by the Arduino® IDE and uploaded to your main board. This is the one of the great things about the Arduino* community is that they love to share ideas, and sketches can be found in the Arduino* IDE and in many places where users show off their projects on the internet.



A94 Freecall order hotline: 0800 452 922 iavcar.co.nz

FOR MICROCONTROLLERS: WI-FI/NETWORK CONTINUED

Ethernet Shield

A network shield that will allow the user to set their Arduino* up as web server, control your project over your network or even allow your Arduino* to connect to the World Wide Web.

- 10/100Mb Ethernet port
- Reset button
- microSD card slotStackable headers
- Dimensions: 69(L) x 48(W) x 14(H)mm

duinotech

XC4412 \$48.90 \$44.00	\$39.10

RS-232 to TTL UART Converter Module

This tiny module allows you to connect a legacy device (or computer) to your existing Arduino* board. Providing a full RS-232 port, this shield allows you to directly communicate with a huge variety of serial peripherals.



- Four pin header for 5V, GND, TX and RX signals
- Micro USB socket for optional power input
- Genuine RS-232 compatible signals on D9 socket



duinotech

Cat.	Qty 1+	Qty 4+	Qty 10+
XC3724	\$11.90	\$10.90	\$9.90



ETHERNET IO CONTROLLER WITH ARDUINO®

This clever project uses our XC4412 ethernet shield to connect your Arduino* to a wired network so you can access it across the Internet. See and change the current state of the IO pins, so you can turn devices on and off remotely across the Internet. Use it to turn on the lights in another room (relay module required), see if someone has left the fridge door open (analog light or temperature sensor required), see if it's raining outside (rain sensor module required).

See step-by-step instructions at:



jaycar.co.nz/diy-ethernet-controller

FOR MICROCONTROLLERS

IR/RF:

We'd be pretty lost without wires connecting everything together, but sometimes it can be handy to make the connection without getting all tangled up. Check out the shields and modules below for ways to connect wirelessly. Alternatively, control an existing wireless device like the IR remote on your TV, or get data from the 433MHz transceiver on your weather station.

IR Remote Control

Forget borrowing the TV remote to add IR remote control to your next Arduino* project, and give it its own dedicated remote. Compact design with 21 buttons including numbers and channel controls. Takes a single CR2025 battery.

- NEC modulation works with 'IRremote' library
- Pocket size with numeric keypad
- Easily add IR control to your next project with XC4427





Cat.	Qty 1+	Qty 4+	Qty 10+
XC3718	\$5.80	\$5.20	\$4.60

Infrared TX Module

Use this device to send data over infrared. Use your Arduino* to control your TV or Media Centre. Combine it with our RX module (XC4427) and you have simple wireless communication. You could also use it to control one of our infrared RC helicopters!

• Operating Voltage: 5VDC



duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4426	\$5.90	\$5.30	\$4.70

Infrared RX Module

Receive data sent via infrared, this module can read the signals sent by most IR remote controls. Pair it with the TX Module (XC4426) to make a universal remote control.

• Operating Voltage: 5VDC





duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4427	\$5.20	\$4.65	\$4.15





Raspberry Pi Compatible



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Are you in the trade?

For professionals engaged in electronics & construction-related industries.



FOR MICROCONTROLLERS: IR/RF CONTINUED

2.4GHz RF Module

Based on the NRF24L01 transceiver IC, this module allows communication on the license free ISM band. Despite its diminutive size, it supports on-air data rates of up to 2Mbps. No external components are required (other than your Arduino*).

- Operating Voltage: 3.3V (5V tolerant logic)
- Output Power: 1mWChipset: NRF24L01
- Ultra low power consumptionProtocol: SPI
- Dimensions: 33(L) x 14(W) x 9(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4508	\$11.90	\$10.70	\$9.50

433MHz Wireless Modules

Pre-built 433MHz wireless transmitter / receiver modules featuring ASK encoding and are ideal for devices using short data bursts such as remote controls, trigger pulses etc.



Specifications	ZW3100	ZW3102
Output Power	3dBm.	
Supply Voltage	3VDC	5VDC
Supply Current	10mA max	
Data Rate	300bps to 10kbp	S
PCB Measures (excl pins)	18.5(H) x 14.5(W)mm	42(H) x 11(W)mm

	K	
11	TIGAL	(8

	Cat.	Qty 1+	Qty 10+	Qty 25+
Transmitter	ZW3100	\$16.90	\$15.20	\$13.50
Receiver	ZW3102	\$16.90	\$14.90	\$13.90

RF Transceiver Module

This module adds a versatile 433MHz radio to your duinotech project. Capable of transmitting and receiving over a wide frequency range, these modules allow two-way wireless communication between duinotechs. Controlled via SPI. Prewritten libraries available.

- Operating Voltage: 1.9-3.6VDC
 Frequency Range 433/898/915MHz
 Maximum Data Rate: 50kbps (with error correction)
- RF output power: 13dBm(20mW)
- Connection protocol: SPI
 Includes antenna
- Dimensions: 32(W) x 19(L) x 19(H)mm (Excluding antenna)

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4522	\$24.90	\$22.40	\$19.90

FOR MICROCONTROLLERS BLUETOOTH:

Bluetooth* technology is in many things around us, such as computers and mobiles phones. Allowing Arduino* to communicate with these devices via Bluetooth* can expand their functionality. From simple display of debugging data on your laptop to full control of your Arduino robot with an app, Bluetooth® can provide the connectivity you need.

Bluetooth® V4.0 BLE

Configurable as master or slave Provides a serial communication channel.

- State status pin
- Serial interface with AT commands
- 5V IO and power

duinotech

Cat.	Qty 1+	Qty 4+	Qty 10+
XC4382	\$33.90	\$29.90	\$26.90

FOR MICROCONTROLLERS **POWER/VOLTAGE CONVERSION:**

Getting power to your Arduino* project is fairly important, and will probably need extra components if you want to take what you're building beyond the reach of the USB cable on your computer. From charging batteries to converting between systems running off different voltages or even getting power to your breadboard, you'll find something to help amongst the modules below

Logic Level Converter Module

While most of the modules used in the Arduino® world are Williams to the modules used in the Addinio world an 5V logic, some are 3.3V. And unfortunately, connecting them directly often results in "letting out the smoke!" This little module is the answer. Provides two bi-directional channels to safely marry 3.3V with 5.0V. Drops straight into solder-less breadboard or can be soldered into your own PCBs.

- Two bi-directional channels
- 12-pin DIL package
- Dimensions: 35(W) x 31(D) x 21(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4486	\$6.90	\$6.20

Lithium Battery Charge Module

This tiny module charges a single lithium cell from a 5V supply. Ideally paired with XC4512 DC-to-DC Converter Module to create a device that runs on a single lithium cell and recharges by USB. Output via solder tabs, Input is either via solder tabs or a mini-USB port.

- Input voltage 4.5V-5.5VDC
- Default charge rate: 1A
- Full charge voltage 4.2V
- Charge state LEDs
- Dimensions: 27(L) x 19(W) x 5(H)mm

duinotech Note: Batteries not included.

Cat.	Qty 1+	Qty 5+
XC4502	\$6.90	\$6.20

5VDC Boost Module

This module is capable of providing a stable 5V, from a single Li-Po or two Alkaline cells. Input is via two solder pads, output is via a female USB socket.

- Input Voltage Range: 2.5-5VDC
 Output Voltage: 5VDC
- Dimensions: 34(L) x 16(W) x 8(H)mm
- Note: Batteries not included.

duinotech

	Cat.	Qty I+	Qty 5+
	XC4512	\$6.90	\$6.20

DC - DC Stepdown Module

This module accepts any voltage from 4.5 - 35VDC, and outputs any lower voltage from 3-34V. Output is adjusted via a multi-turn potentiometer. Use it to run your 5V duinotech projects from a 6V, 9V or even 12V supply.

- Input voltage: 4.5 35VDC
- Output voltage: 4 34VDC adjustable Maximum output current: 2.5Å
- Dimensions: 49(L) x 26(W) x 12(H)mm

duinotech

Cat.	City 1+	City 5+
XC4514	\$10.90	\$9.70

DC-DC Boost Module with Display

The Arduino* compatible boost module can be used to provide higher voltages for your project, such as running 5V Arduino* projects from Lithium batteries.

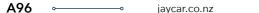
Output from 5V-56V

Bluetooth

- Input range 3.5V-35V
- Max 2A input current without heatsinking
- Solder terminals
- Cannot be used to reduce voltage
- Dimensions: 66 x 35 x 12mm

duinotech

			_	
Cat.	Qty 1+	Qty 5+	Qty 10+	
XC4609	\$24.90	\$22.40	\$19.90	



FOR MICROCONTROLLERS

MOTOR/POWER CONTROL:

Practically all motors use more power than any of the pins on Arduino* Main Board can supply, so we need to use a Motor Control Shield or Module to interface. Most motors also operate off a voltage different to 5V, and many of these Shields and Modules will provide regulation of higher input voltages down to 5V for your Arduino* main board as well. Of course, these boards aren't limited to just driving motors, they are suitable for many power control applications.

L293D Motor Control Shield

This versatile board has 2 x 5V servo ports connected to the Arduino* high-resolution dedicated timer to ensure jitter-free operation. It is also capable of driving up to 4 bidirectional DC motors with individual 8-bit speed selection, or up to 2 stepper motors with single/two/interleaved steppings.



- 4 H-Bridges: per bridge provides 0.6A (1.2A peak current) with thermal protection
- 2 external terminal power interface
- Dimensions: 70(L) x 53(W) x 20(H)mm

duinotech

	Cat.	Qty 1+	Qty 5+
XC4472 \$17.90 \$16.10	XC4472	\$17.90	\$16.10

24V 5A MOS Driver Module

When connected to an Arduino*, this impressive MOS driver module accepts Pulse Width Modulated (PWM) input to drive

24VDC loads. Compatible with both Arduino* and pcDuino*, making it perfect for many projects such as lighting, DC motors, pumps and solenoid.

- 3.3V & 5V DC operation
- Output load voltage 0-24VDC
- Output current 5A
- Dimensions: 34(L) x 21(W) x 16(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4488	\$10.90	\$9.70

Dual Motor Controller Module

Using the powerful L298N Dual Motor Driver, this module allows full control of two DC Motors or one stepper-motor. Features back-EMF and over-temperature protection, it is ideally suited to drive two-motor robot kits. An on-board 5V regulator can also be used to power your project.

- Maximum output current: 4A
 Motor voltage: 3-30VDC
- Motor voltage: 3-30VDC
- Screw terminals for easy connectionsLEDs show power and output status
- Requires six digital pins
- 4 mounting holes
- Dimensions: 69(W) x 56(D) x 36(H)mm

duinotech

Cat.	Qty 1+	Qty 5+	
XC4492	\$19.90	\$17.90	

30A Current Sensor Module

Monitor the motors on your next robot project with the 30A Current Sensor Module. The module outputs a voltage proportional to current passing through the sense pins on the module. Based on the ACS712 sensor IC.

- Output ratio is 66mV/A
- Can measure negative and positive current flows
- Onboard power indicator
- 5V supply required
- Current path is isolated from logic pins
- Dimensions:
- 31(L) x 13(W) x 15(H)mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4610	\$13.90	\$12.90	\$10.90

Relay Boards

These handy relay modules provide the easiest way to use your duinotech to switch real world devices. Available in one, four and eight channel versions, these modules can switch up to 10A per channel. Includes back-EMF protection and LEDs so you can easily see the state of the outputs. The four and eight channel versions even have optical isolation to protect your duinotech. While the one channel version operates directly from 5V.





XC4440

- Status LEDs show channel status
- Active High logic
- Screw terminals for easy connection to relay contact.
- SPDT RelaysCurrent Ratings: 10A @ 250VAC, 10A @ 30VDC
- Four mounting holes on each module

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Cat.	Channels	Supply Voltage	Optical Isolation	Dimensions
XC4419	1	5VDC	No	40(W) x 27(D) x 18(H)mm
XC4440	4	12VDC	Yes	77(W) x 55(D) x 17(H)mm
XC4418	8	12VDC	Yes	135(W) x 50(D) x 19(H)mm

Channels	Voltage	Cat.	Qty 1 +	Qty 5+	
1	5VDC	XC4419	\$6.90	\$6.20	
4	12VDC	XC4440	\$17.90	\$16.10	
Channels	Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
8	12VDC	XC4418	\$24.90	\$22.40	\$19.90

Duinotech Smart Wi-Fi Relay Kit

This board is essentially a Wi-Fi controlled relay that you can trigger with an App from anywhere in the world. Ideal for home automation, IoT, lighting control projects, and much more. The board measures just $45\times28\text{mm}$ and

board measures just 45 x 28mm ar features an ESP8266 module and microcontroller, screw terminal blocks to make wiring easy, and a 5V relay to control power to devices that draw more current than an ordinary development board can handle.



duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3804	\$19.90	\$17.90	\$15.90

Duinotech Screw Terminal Shield

This shield makes it easy to create prototypes or complete projects using an Arduino* NANO or equivalent, without the need for

soldering or using jumper wires that can become loose and fall out. Simply insert the shield onto your favourite NANO board then connect any wiring to the screw terminal blocks. The shield also includes a large prototyping area with through-plated holes if you need to solder sensors and other components.



	Cat.	Qty 1+	Qty 3+	Qty 6+	
Suits Arduino® UNO	XC3890	\$17.90	\$15.90	\$13.90	
Suits Arduino® NANO	XC3892	\$10.90	\$9.90	\$8.90	

WHAT IS A SHIELD?

A word that you will hear a lot on these pages is SHIELD. For the purposes of Arduino, a shield is not a thing to protect you in a swordfight, it's a description for a device that will go with another Arduino* device. It could be a temperature sensor, a music generator, or even a Wi-Fi adaptor, etc. Sometimes the word "Module" is used as well. Both terms have an interchangeability about them.



FOR MICROCONTROLLERS

INPUT & CONTROL:

With any Arduino* project, there'll be a point where you need to provide some input to tell it what to do. From steering a robot in real-time to changing a setting occasionally, there's a shield or module that will help you control your sketch.

240x320 LCD Touchscreen

A large, colourful touch display shield which piggy-backs straight onto your UNO or MEGA. Display photos from the microSD card slot on the display to create a slick and professional-looking project.

- 320x240 pixel resolution
 Fast Parallel interface
- microSD Card slot
- Resistive touch interface
- Dimensions: 77(L) x 52(W) x 19(H)mm

duinotech



16 Key Touch Keypad Module

A compact 16 key touch interface for your Arduino project, based on the TTP229 capacitive touch sensor IC. Use the module as it is, or extend wires from the pads to create external touch pads

- Works on 2.4-5.5V
- Onboard power indicator
- Two wire serial data interface
- Dimensions: 65 x 50 x 12mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+	
XC4602	\$11.90	\$10.70	\$9.50	

Touch Shield

The MPR121 IC is a great way to build simple capacitive touch interfaces, and now it's even easier to incorporate into your Arduino* projects with the touch shield. The touch shield has 9 capacitive touch pads, with headers for the remaining 3 electrode connections. With this shield you can have a total of 12 touch sensitive buttons. An on-board logic level converter allows it to work with 5V and 3.3V Arduino* boards Simply solder on some



Fingerprint Sensor Module

Runs off 3.3V and TTL serial to send data back and forth between the mainboard and fingerprint sensor.

To help you get up and running quickly you can download the Arduino library we have written at: https://github.com/Jaycar Electronics/Fingerprint-Sensor



XC4551



Thinagananananan

Qty 1-

\$22.90



Keypad Shield with LCD

Comes with a built-in 16 character by 2 line LCD display with backlight, this six push button keypad allows you to create a

user friendly interface for your project. The keypad consists of up, down, left, right, select and also a reset button. Perfect to use as a selection menu.

- 16 Chars x 2 lines (32 Chars)
- Contrast adjust knob
- LED Backlight
- 4 Bit Arduino® LCD Library
- Dimensions: 80(W) x 58(D) x 20(H)mm

duinotech

Cat.	Qty 1+	Qty 4+	Qty 10+	
XC4454	\$24.90	\$22.40	\$19.90	

empo: 60 Acc:1

Thin-Film Pressure Sensor

A highly sensitive waterproof sensor to detect pressure. The 5mm round thin sensor is mounted at the end of a 40mm long flexible lead that connects to the main board. Pressure up to 10kg on the sensor sends the change in resistance to your favourite microcontroller. Powered from either 3.3V or 5V.





- Flexible nano sensor
- Waterproof
- Pressure sensitive

Specifications	XC3738	1	2012	-	
Range	0-10kg				
Thickness	<0.25mm				
Response Point	<20g				
Voltage required	3.3V - 5V				
Lead Length	40mm				
Board Dimensions	35(L) x 20(W)mm			
		Cat.	Qty 1+	Qty 3+	Qty 6+
	2	XC3738	\$13.90	\$12.90	\$10.90

Heart Rate Sensor Module Kit

Make your own health and fitness monitoring project with this heart rate monitor sensor kit. The compact board measures the electrical activity of the heart via three ECG electrode sensors, then filters

and amplifies the analogue signals so that the heartbeat can be charted as an ECG or electrocardiogram using your Arduino* or similar microcontroller. Powered by 3.3V. Kit includes the heartbeat sensor board, 3 x adhesive ECG pads and a colour-coded connecting cable. A 12-pack of spare adhesive ECG pads are available separately (XC3785).

- Leads Off Detection
- Auto Shutdown Pin
- AD8232 Heart Monitor Board
- LED Onboard Flashes with Heart Beat

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
Module Kit	XC3784	\$31.90	\$27.90	\$24.90
ECG Sensor Pad 12Pk	XC3785	\$9.90	\$8.90	\$7.90

Heartbeat Sensor Module

An easy way to provide pulse rate measurements from a person's finger, earlobe or wrist to your electronics project. At the heart of the board is the MAX30102 IC, which is an integrated pulse oximeter and heart rate monitor sensor. Data from this sensor is communicated to your microcontroller using standard I2C communications. Other features include ambient light suppression and low-noise circuitry for optimum performance. The tiny board





Output Signal Interface	I2C			
Dimensions	20(L) x 15(W)mm			
	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC3740	\$10.90	\$9.90	\$8.90

Hand Gesture Sensor Module

Control your project with touchless hand gestures. Onboard ambient light, RGB colour, and proximity sensors detect the hand movements in six different directions, then sends the data to your microcontroller over standard I2C communications. It has a detection range between 100 - 200mm, and uses UV and IR blocking filters to improve performance.



- Proximity SensingGesture Detection

Specifications	XC3742
Detection Range	100 - 200mm
Power	3.3VDC
Output Signal Interface	12C
Dimensions	20(W) x 12(H) x 11(D)mm







FOR MICROCONTROLLERS: INPUT & CONTROL CONTINUED

Analogue Rotation Sensor

An analogue rotary encoder module that provides direction and number of turns to your microcontroller. Voltage can be subdivided into

Analogue Interface

Specifications	XC3736	
Voltage Required	2.4V - 5.5V	
Dimensions	65(L) x 50(W)mm	
		0.4.

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3736	\$6.90	\$6.20	\$5.50

10K Ohm Slider Potentiometer Module

An easy-to-install slide potentiometer for your Arduino, ARM, or microcontroller project. Suits 3.3V and 5V systems, and features a dual analogue output that travels between 0V to VCC. High-quality for reliable and stable performance. Supplied with a yellow knob. Features:- Dual analogue output- 0-VCC analogue voltage signal output- 3.3V and 5V applications-Suitable for Arduino*,

Microcontrollers and Al Dimensions: 90(L) x 27(W) x 30(H)mm	RM.	The State His	
		A. 4.	 a. 4a.

Cat.	Qty 1+	Qty 4+	Qty 10+
XC3734	\$10.90	\$9.90	\$8.90

XY Joystick Module

This handy module gives you X & Y axis control for your Arduino* project. The board is interfaced through 5 pin header and provides a small game-pad style joystick. There is also a tactile switch when you push the stick down.

- Operating Voltage: 3-5VDC
- Digital output for tactile switch
- X & Y axis analog outputs
- Dimensions: 47(L) x 25(W) x 32(H)mm

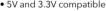
duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4422	\$7.30	\$6.50	\$5.80

LED Pushbutton Module for Arduino

A simple pushbutton module with a green LED, ideal for adding an input to a breadboard design or other project.

- Tactile Pushbutton and Green LED • LED lights up when button pressed
- (can be changed with jumpers/ wiring) • 5V and 3.3V compatible



- 5 v and 5.5 v compatible				
	Cat.	Qty 1+	Qty 5+	
	XC3722	\$10.90	\$9.90	

USB Interface for Joystick and Buttons

If you're building your own arcade game, whether it's with a PC or Raspberry Pi, you'll need a joystick. This interface board allows you to easily interface joysticks like our SM1052 and arcade pushbuttons like SP0662, SP0664, SP0665, SP0666 and SP0669 into any device that can connect to a USB joystick. It could be used for arcade games, flight simulators or anything that works with a USB



- 12 button inputs
- Detachable USB lead for fitting through small holes
- Includes 10 pluggable leads that connect directly to spade terminals on SM1052, SP0662, SP0664, SP0665, SP0666 and SP0669



Arcade Joystick with Microswitches

Solidly built joystick is ideal for arcade games and emulators or anything that needs digital directional

- SPST Microswitches for reliable operation
- Adiustable restrictor plate with options for 2 way, 4 way and 8 way
- · Metal mounting plate and main shaft
- Removable knob for easy mounting



Cat.	Qty 1+	Qty 10+	Qty 25+
SM1052	\$29.90	\$26.90	\$23.90

Illuminated Arcade Button

Brightly coloured illuminated pushbutton switches ideal for creating a custom arcade machine, or even use as a large illuminated pushbutton for a control panel. Suits 25mm mounting hole.

- SPDT Microswitch for reliable operation
- All connections are 6.3mm spade
- Includes LED illumination suitable for 12V







		Cat.	Qty 1+	Qty 10+	Qty 25+
Red		SP0662	\$10.90	\$9.90	\$8.90
Yellow		SP0664	\$10.90	\$9.90	\$8.90
Green		SP0665	\$10.90	\$9.90	\$8.90
Blue		SP0666	\$10.90	\$9.90	\$8.90
White		SP0669	\$10.90	\$9.90	\$8.90



WITH ARDUINO®

A handy little tool that can help you out if you work with LEDs, especially if you are always trying to work out the right resistor to make them work. The idea has been inspired by Dave Cook's

http://robotroom.com/LED-Tester-Pro-1.html We have written the code from scratch to suit the parts we have available in the duinotech

- Adjustable test current
- Displays LED Forward Operating voltage
- Calculates ideal resistor & gives Cat. number for a design voltage and current
- Only 3 discrete components to be soldered
- Detachable shields pull it apart & use for other projects



See step-by-step instructions at:

jaycar.co.nz/diy-arduino-led-tester

FOR MICROCONTROLLERS

COMPASS/ORIENTATION/GPS:

We pretty much take for granted many of the sensors that are on our phones these days- compass, GPS, accelerometer, but did you know that you can also add similar features to your Arduino* projects? You could use a compass sensor to help guide your robot or an accelerometer to keep your Arduino* controlled gimbal facing upright, or even provide a tilt-based user input device for next project.

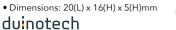
3 Axis Digital Compass Module

This module allows you to take accurate compass bearings, no matter how it is orientated. Easily interfaced via I2C.

• Operating Voltage: 5VDC

• Resolution: 12bits

• Interface: I2C • Includes 5V - 3V level shifter





Cat.	Qty 1+	Qty 3+	Q ty 6+
XC4496	\$20.90	\$18.90	\$16.90

Tri-Axis Digital Tilt Sensor

Use this high performance acceleration sensor in your project to detect direction (transverse/longitudinal), as well as free fall, pulse, and shake detection. The on-board MMA8452Q is a smart low-power, three-axis, capacitive micromachine acceleration sensor with 12-bit resolution. Users are able to set a range of ±2q, ±4q, or ±8g, which can output high-pass filtering data and non-filtered data in real-time. An embedded function can also be used to generate an inertial wake-up interrupt signal, which enables MMA8452Q to maintain a low-power mode in the static state while monitoring the event.

- 12 bit and 8 bit digital outputs
 I2C digital output interface (up to 2.25MHz with 4.7kΩ pull-up resistor)
- Two programmable interruption pins applied to six interruption sources
- Three motion detection embedded channels: free fall detection, pulse detection, shaking detection
- Direction (transverse/longitudinal) detection with setting lag compensation
- Automatic arousal and auto-dormant ODR can be
- automatically alteredHigh-pass filtering data can be exported in real time
- Dimensions: 35(L) x 20(W) x 7(H)mm



Duinotech GPS Receiver Module with On-Board Antenna

Add GPS positioning down to a 2.5m accuracy to your next project with this compact GPS module. Based on the NEO-7M that supports the NMEA standard protocol output, and features built-in flash to save settings after power-off, without an external EEPROM. An onboard ceramic antenna means you don't need an external one, however, an SMA connector is also attached if you wish to attach your own antenna to improve reception. The micro USB interface enables you to debug the GPS module via a data cable, and a reserved serial port interface for USB-to-serial port modules or external MCU enables you to easily receive the GPS data.

- On-board signal LED indicator
- 3.3V or 5V operation
- Onboard & external antenna options
- 9600 Baud Rate
- 1Hz Output Frequency
- Dimensions: 53(L) x 26(W) x 15(H)mm

Please note: When connecting an

external antenna the C2 capacitor on the module needs to be removed. If the internal and external antennas are used together they will interfere with each other, affecting

duinotech

Cat.	Qty 1+
XC3710	\$29.90

compatability icons





Raspberry Pi Compatible

FOR MICROCONTROLLERS

NFC & RFID:

RFID technology is one of those things that is everywhere around us, including security systems, bank cards, public transport cards and even passports. Using a RFID module or shield you can read (and write to, depending on how secure they are) RFID cards and interact with NFC enabled items like mobile phones.

Data Logging Shield

Extremely easy to set up. Use this datalogging shield to store your data to files on any FAT16 or FAT32 formatted SD card, or have it to be read by any plotting, spreadsheet or analysis program. All data stored is timestamped in real-time so you

know precisely what happened when! Uses a 3.3V converter to avoid damaging your SD card. Includes a 3V button battery.

- Stackable headers
- Reset button
 Changeable CR1220 battery
 102 solder pads
- Dimensions: 43(L) x 17(W) x 9(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4536	\$24.90	\$22.40	\$19.90

RFID Read & Write Kit

This RFID module allows you to both read and write MiFare-Type RFID cards. Create your own contactless security lock. Includes one credit-card style tags and one key-fob style tag.

- Operating Voltage: 3.3V
- Communications Protocol: SPI RFID Protocol: MiFare
- Includes 1 x card and 1 x fob
- Dimensions:
- 66(L) x 40(W) x 7(H)mm

duinotech



jaycar.co.nz/diy-dodging-robot



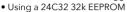
FOR MICROCONTROLLERS

CLOCK & TIMING:

If you have a project that needs to keep time, even when your Arduino* is powered down, then check out these modules and shields. Sporting a 'Real Time Clock', they have a small battery backed IC which keeps track of the seconds, minutes, hours, days and even years. Operation times of a year can be expected - even longer if the project has external power.

Real Time Clock (RTC) Module

This tiny little module will keep accurate time using the supplied CR2032 button battery. Great to use with all of your Arduino* projects that require the use of the date and time such as clocks, data-loggers and timers.



- Supplied with a CR2032 battery
- Read and write functionality
 Usage time approx. 1 year fully charged
- Dimensions: 28(L) x 28(W) x 7(H)mm



duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4450	\$7.30	\$6.50	\$5.80

FOR MICROCONTROLLERS

MAGNETIC HALL EFFECT:

You'd be surprised at how useful a magnetic sensor can be, especially if you want to sense something without touching it. The duinotech range of magnetic sensors spans simple proximity sensors to detect the presence of a magnet to three dimensional compass sensors for detecting magnetic field directions and strength.

Hall Effect Sensor Module

Sense magnetic presence, rotating wheels and magnets, door sensors and any other magnets near this device.



- Operating Voltage: 4.5 28VDC
- Schmitt-Trigger output
- Dimensions: 20(W) x 15(L) x 3(H)mm



duinotech

Cat.	Qty 1+	Qty 5+
XC4434	\$6.90	\$6.20

Hall Effect Sensor

UGN3503U Hall Effect Sensor IC

A miniature sensor to accurately track extremely small changes in magnetic flux density - changes generally too small to operate Hall effect switches. Applications include notch sensor, current monitor, gear tooth sensor, etc.

Specifications	ZD1902
Operating Voltage	4.5 - 6VDC
Supply Current	Typ. 9mA
Output Voltage	Typ. 2.5V DC
Output Resistance	50Ω
Size	4.5(W) x 4.5(H) x 1.5(D)mm



\$9.50

\$8.55

\$7.60



ZD1902

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FOR MICROCONTROLLERS

MATRIX DISPLAY & CONTROL:

Matrix displays offer a cost effective way of creating large signage. The matrix display modules can be combined into multiple rows and columns to create a display as large as you need. Choose from the large range of monochrome or colour matrix display modules, microcontroller driven drivers, and any one of the Arduino* microcontroller boards and you can create an impressive scrolling text and image display board.

8 x 8 LED Dot Matrix Module

A 64 x red LED matrix, this module is easily controlled with the LED Control library. Display your own custom characters, or use multiple modules together to make a scrolling display.

- Operating Voltage: 5VDCProtocol: SPI
- Chipset: MAX7219
- LED Colour: RED
- Dimensions: 62(W) x 32(H) x 14(D)mm

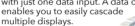
duinotech

Cat.	Qty 1+	Qty 5+
XC4499	\$10.90	\$9.70

RGB LED Circular Board

Add dazzling circular-shaped LED patterns to your next project or costume with this addressable RGB LED ring module. It measures 72mm in diameter and features $24\,\mathrm{x}$

RGB LEDs with 256 brightness levels. Runs from 5V, features reverse polarity protection, and has onboard WS2812 circuitry that allows you to control it with just one data input. A data output



		27. 4	7 . 17		
Specifications	XC438				
Power	5V				
Brightness Levels	256				
Colours	16,777,	216			
Dimensions	72mm D	Dia.			
		Cat.	Qty 1 +	Qty 3+	Qty 6+
		XC4385	\$19.90	\$17.90	\$15.90

8 x 5 RGB LED Shield

Create dazzling LED displays with this RGB LED Matrix Shield that simply plugs directly onto your UNO compatible board. The built-in driver IC and 12V programmable constant current circuitry ensure each LED can reach full brightness and colour. The data transfer protocol uses single NZR communication mode. After the pixel power-on reset, the DI port receives data from controller. The first pixel collects initial 24-bit data then

sends it to the internal data latch. • Dimensions: 69(L) x 57(W) x 18(H)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3730	\$22.90	\$20.90	\$17.90

LED Matrix Kit

This 8x8 LED matrix kit is powered by MAX7219 and it only needs 3 data lines and 2 power lines. It is easy to use and has adjustable brightness. Usually used as electronic display panel. Can be driven in parallel or serial and takes less than 0.1s to light up all 8 rows/ columns so a dynamic display can be achieved in either connection.

Includes:

- Chipset: MAX7219
- Electrolytic capacitor: 10µF/25V
 Resistor: 10K
- Capacitance: 0.1µF Headers and receptacles
- LED Matrix dimensions: 52(L) x 34(W)mm

duinotech







Qty 6+

\$22.90

8x16 Matrix LED Display Module

Create amazing patterns or messages with this LED matrix module. It features 128 bright blue LEDs arranged in an 8 x 16 grid, brightness control, and communicates to your microcontroller via I2C. It can be powered from 3.3V or 5V, and connects to your

controller board using the supplied 220mm long 4-pin



Oscillation Frequency	450kHz					
Dimensions	72(L) x 32(W) x 8(D)mm					
	Cat.	Qty 1+	Qty 3+	Qty 6+		
	XC3746	\$22.90	\$20.90	\$17.90		

84 x 48 Dot Matrix LCD Display Module

These compact LCD displays are identical to those found in some old Nokia phones, and feature the PCD8544 chipset. An easy way to add a small black and white graphics display to your project.

• 8 pin plug • SPI interface

Communication

- Four mounting holesCan work off 3.3V or 5V supply
- running off 5V
- 44(L) x 44(W) x 13(H)mm



Cat.	Qty 1+	Qty 5+	Qty 10+
XC4616	\$24.90	\$22.40	\$19.90

1.3" 128 X 64 Pixel Monochrome **OLED Display Module**

A thin 128 x 64 pixel OLED display. Monochrome graphics with wide viewing angle.

- IIC/SPI
- 100 Lux @ 12VDC
- Dimensions: 39(L) x 36(W)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
XC3728	\$22.90	\$20.90	\$17.90

128 x 128 Pixel OLED Display Module

This 1.5" OLED display features 128 x 128 RGB pixels to provide an attractive colour display for your next project.

- RGB 128 x 128 pixels
- SSD1351 chipset
- Passive Matrix Display
- 262,144 Colours
- 1/128 Drive Duty
- 5V Powered
- Dimensions: 34(L) x 26.8(W) x 2(D)mm



Cat.	Qty 1+
XC3726	\$46.90

compatability icons





Raspberry Pi Compatible

1.54" E-Ink Display Module

This highly visible display module uses E-ink technology to display black, white, and red text and graphics on the 200 x 200 pixel screen. The screen uses very little power to refresh, and retains the last displayed content for a very long time when power is removed. The screen also reflects ambient light, which avoids the need for a backlight, and makes it easy to read under bright sunlight. It has a wide viewing angle over 170°, works from 3.3V, and communicates with your favourite microcontroller using its SPI interface.



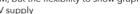


	P
Specifications	XC3747
Power	3.3VDC
Resolution	200 x 200
Viewing Angle	170°
Partial Refresh Time	0.3s
Full Refresh Time	2s
Low Refresh Power	26.4mW
Extra Low Standby	<0.017mW
Dimensions	48(L) x 33(W)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3747	\$56.90	\$50.90	\$44.90

128 x 64 Dot Matrix LCD Display Module

A larger display than XC4616 with cool blue graphics on white background. Similar to the character LCDs with inbuilt character ROM, but the flexibility to show graphics as well.



- 5V supply128 pixels wide by 64 pixels high display
- 8 bit, 4bit and serial interfaces available
- White backlight
- Dimensions: 93(L) x 70(W) x 13(H)mm

duinotech





This is an easy project to assemble-just one main board and two shields, but gives a fully functional, easy to read clock display which retains the time, even when disconnected from power. You could leave it on your desk plugged into a USB port on your computer, so that it powers up whenever the computer

jaycar.co.nz/diy-arduino-clock-uno

FOR MICROCONTROLLERS

DISPLAYS:

One of the most useful things a device can do is communicate information to us- our smartphones wouldn't be much use without their screens! Your Arduino* is much the same, and most projects require some information to be communicated about the sensors they're reading, or how they're doing at the little task we've set them to. Here's a guide to the many different displays that make up the Arduino* range, and some tips on choosing the best one for your application. Whether it be reading out a single number or some brief words, or even a complex graphical display, there's one to suit

3.5" Touchscreen with Enclosure & Stylus

Perfect for prototyping or to set up a portable device with your Raspberry Pi 3B+. The 3.5" LCD touchscreen requires minimal setup. Supplied with a handy stylus and protective case.



Note: F	Raspberry	Pi	3B+	sold	separately	,
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duinotech		
Specifications	XC4631	
Screen Type	Resistive TFT	J. Taranta
LCD Interface	SPI	
Screen Controller	XPT2046	
Colours	65536	
Backlight	LED	
Resolution	480 x 320	

Qtv 1+

\$56.90

Qtv 3+

\$50.90

Qtv 6+

\$44.90

240x320 LCD Touchscreen

A large, colourful touch display shield which piggy-backs straight onto your UNO or MEGA. Display photos

Cat

XC4631

from the microSD card slot on the display to create a slick and professional-looking project.

320x240 pixel resolution Fast Parallel interface microSD card slot Resistive touch interface Dimensions: 77(L) x 52(W) x 19(H)mm duinotech				
	C-1	011.	014.	0110.

XC4630	\$36.90	\$33.20	\$29.50

RGB LED Strip Module

Strip of eight RGB LEDs which can be controlled by a single Arduino* pin. Up to 1000 LEDs can be daisy chained and run from

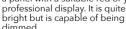
- Each channel has 256 brightness levels and the state of the state of
- Current draw 500mA per module maximum
- 5V supply.Eight RGB LEDs
- 54(L) x 10(W) x 3.5(H)mm

duinotech

Cat.	Qty 1+	Qty 4+	Qty 10+
XC4380	\$10.90	\$9.90	\$8.90

Quad 14 Segment Alphanumeric Display Module

This unit, which measures only 50L x 28W x 10H features an impressive 0.54inch (14mm) character height enabling you to display all alphanumerics in either red or yellow. 4 x 20mm mounting holes are provided, enabling you to fix the unit behind a panel with a suitable red or yellow perspex filter for a very



dimmed.		in l	14	NEW
Specifications	XC3715	- Q	7/10	
Power	5VDC 🥞	5241AS	140	BULL
Interface	Up to 12DC		50	/</td
LED Type	14 Segment	- 10	3241A	
Illumination Type	Bi-colour (Red, Yell	ow)	The state of	
Dimensions	50(L) x 28(W) x 10	(H)mm		
	Cat.	Otv 1+	Otv 3+	Otv 6+

XC3715

\$11.90

\$10.90

8 Digit 7 Segment Display Module

Building a project with heaps of 7-segment displays is always going to look awesome, but unless you have the right hardware, it can use up a lot of IO pins. The MAX7219 based 8 Digit 7 Segment Display module takes care of that, running all eight digits from just three IO pins. Extra units can be daisy-chained from the end of the previous unit for truly huge displays.



- SPI interface
- 15mm panel height with red 9mm digits
 MAX7219 features dimming and digit decoding



	Cat.	Qty 1+	Qty 4+	Qty 10+
8 Digit 7 Segment Display Module	XC3714	\$10.90	\$9.90	\$8.90

LED Traffic Light Module for Arduino

RED, YELLOW, GREEN. Stop, Caution, Go. These are universal colour codes, and this Arduino* module has many uses. From creating a miniature set of traffic lights for understanding how they work, through to building a model roadway or even setting up a basic status display for your next project

- 10mm Red, Yellow, Green LEDs
- Inbuilt dropping resistors
- Right angle plugs for standing up in breadboard
- Common ground connection



Cat.	Qty 1+	Qty 5+
XC3720	\$14.90	\$13.90



jaycar.co.nz/intruder-alert

FOR MICROCONTROLLERS: DISPLAYS CONTINUED

WS2812 RGR LFD Module

The WS2812 RGB LED module provides full PWM control of the three LED channels in a single IC with control from a single pin. The IC is mounted on a small PCB that suits

0.1" pitch protoboards and breadboards. Can daisy-chain modules.

- Great for creating custom RGB LED displays
- Same IC as XC4380 Arduino® module



Cat.	Qty 1+	Qty 10+	Qty 25+
ZD0272	\$5.60	\$5.00	\$3.90

LoL Shield

The LoL Shield is a charlieplexed LED matrix for the Arduino*. LEDs are individually addressable so you can use it to display anything in a 9 x 14 grid. Scroll text, play games or display images, you can choose to use the LoL Shield Library or program the animation manually.

- 126 individually controlled LEDs
- Great DIY solder project

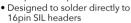


dui

notech				
	Cat.	Qty 1+		
	XC4546	\$22.90		

I2C Port Expander Module for LCD's

The HD44780 compatible LCDs are great for displaying text and simple graphics, but quickly use up your available microcontroller pins. Using the PCF8574 port expander IC, you can control these LCDs using just 2 pins via I2C. The breakout board offers pin multiplexing, contrast control pot, LED backlight jumper control, and up to 8 unique addresses via solderable jumpers.



- · Mounts behind LCD panel, taking up minimal space

 • Arduino* libraries offer direct
- LCD control



Cat.	Qty 1+	Qty 4+	Qty 10+
XC3706	\$11.90	\$10.90	\$9.90

USB Mini LED Touch Modules - 3 Pack

Featuring 6 tiny LEDs, these little lights are about the size of a USB flash drive, but have a touch-controlled light! Plug them in to computers, wall sockets with USB, and anything else you have with a USB outlet! Simply touch to activate on / off, or touch and hold for dimming. Sold in packs of three, because you'll never want just one!

- Touch control ON/OFF (quick touch), Dimming (Continuous)
- With smart touch electrodeless
- dimming switch

 Double USB design, both sides can be used as plug
- Compatible with all standard USB devices such as power banks, mobile chargers, computers or laptops, etc



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FOR MICROCONTROLLERS

LED & LASER:

Sometimes when you need to provide output from a project, a full-on display is too much, or takes up too much space. The modules below are great if you want to your sketch to show what's going on with a simple 'GREEN IS OK' type of indication. If you want to shine some light and a basic LED is not enough, look at the higher powered XC4468 LED or XC4490 Laser modules

RGB LED Module

Using a 5050 RGB LED, by adjusting a PWM signal on the three primary colours the user can gain the full colour spectrum. This tiny module can be interfaced with a variety of microcontrollers

- 3.3V to 5V operation
- 4 pin header
- Common ground LED
- Dimensions: 25(L) x 15(W) x 2(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Q ty 6+	
XC4428	\$5.90	\$5.30	\$4.70	

Red Laser Diode Module

Need a red laser light for your latest project? Here it is! Everything you need to drive the laser diode is included on the board. Just connect it to 5VDC and you're good to go! Use it with our light sensor module XC4446 to make a laser trinwire

- Operating Voltage: 5VDC
- Output power: <1mWWavelength: 650nm(Red)
- Dimensions: 45(W) x 23(D) x 10(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4490	\$6.90	\$6.20

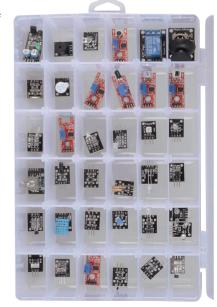
MODULE VALUE PACKS

37 Piece Deluxe Modules Package

With 37 different sensors and modules, this kit covers just about every input and output you can poke a soldering iron at. Packaged in a clear plastic organiser.



- Joystick Module
- Relay ModuleMicrophone Module
- Line Tracking Sensor • Obstacle Avoidance Sensor
- Hall Effect Sensor
- Touch Sensor See website for full list of included modules.



duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+	
XC4288	\$94.90	\$84.90	\$75.90	

A104 jaycar.co.nz

For Microcontrollers

OBSTACLE AVOIDANCE & DISTANCE DETECTION:

What good is a robot if it can't gather information about its surroundings? This collection of modules is ideal to add to a robot or roving autonomous project. You could use an array of XC4442 Ultrasonic Sensor Modules to map out a robot's surroundings and have the Arduino* plan its next movement, or use the XC4611 Triple Reflectance Module to sense the surface underneath your robot, or even create a space age musical instrument like the Ultrasonic Theremin.

PIR Motion Detector Module

A pyroelectric infrared PIR motion sensor is a handy addition any Arduino* project. Wide operating range and delay times changeable via two potentiometers giving this module versatility to the user, it is a must for any security application.

- Working voltage: 5-20VDCQuiescent current: 65uA
- Level output voltage: High 3V
- / Low 0V • Delaying time 0.3-18s
- Dimensions:





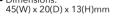
duinotech

Cat.	Qty 1+	Qty 5+
XC4444	\$7.90	\$7.20

Dual Ultrasonic Sensor Module

The popular HC-SR04 ultrasonic distance module provides an easy way for your duinotech to measure distances up to 4.5m. Use it to add obstacle avoidance to your next robotics project or mount it on a servo to create your own ultrasonic SONAR!

- Uses just two digital pins
- Operating Voltage: 5V
 Sensor Angle: <15°
- Detection Distance: 20mm 4.5m
- Dimensions:





duinotech

Cat.	Qty 1+	Qty 5+
XC4442	\$10.90	\$9.70

Infrared Obstacle Avoidance Sensor Module

This module is an inexpensive solution for an obstacle avoidance sensor, perfect for robotic projects and very easy to interface directly with Arduino* and compatible boards. It also works with our pcDuino module by using the 3.3V output. The module has two potentiometers one to control frequency and the other to control the intensity

- 5VDC operation
- Adjustable frequency and intensity
- 4 pin header
- Dimensions: 42(L) x 27(W) x 18(H)mm

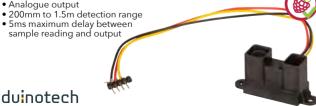
duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4524	\$8.90	\$8.00	\$7.10

20-150cm IR Distance Sensor Module and Cable

Use this long-range infrared distance sensor to detect objects up to 1.5m away. The SHARP sensor has an integrated IR emitter and receiver, which sends an analogue signal relating to the distance to your favourite microcontroller. Supplied with a 200mm long cable.

- Analogue output
- sample reading and output



duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+	
XC3735	\$20.90	\$18.90	\$16.90	

Triple Reflectance Sensor Module

Create a smarter line-following robot with the Triple Infrared Reflectance Sensor Module. The module has three evenly spaced sensors and mounting holes.

- CTRT5000 Sensor IC
- 5V Supply required
- Only 2 pins needed for power and 3 for outputs
- Dimensions: 69(L) x 32(W) x 8(H)mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4611	\$9.90	\$8.90	\$7.90

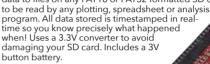
For Microcontrollers

DATA STORAGE:

An Arduino* has a fairly limited amount of storage (certainly compared to the terabytes of data that can be stored on some hard drives), so the shields and modules below can be used to provide an extra place to log data or store resources for your sketch. You might even use one of them to write to a removable card to make it easy to get data to and from a computer.

Data Logging Shield

Extremely easy to set up. Use this datalogging shield to store your data to files on any FAT16 or FAT32 formatted SD card, or have it



- Stackable headers
- Reset button
- Changeable CR1220 battery
- 102 solder pads
- Dimensions: 43(L) x 17(W) x 9(H)mm

duinotech

C	Cat.	Qty 1+	Qty 3+	Qty 6+
Х	(C4536	\$24.90	\$22.40	\$19.90

SD Card Interface Module

Features 5V and 3.3V power inputs and resistors to allow safe on either IO voltage.

- Push-pull style SD Card Socket
- Works with inbuilt Arduino Libraries • 52(L) x 31(W) x 12(H)mm

duinotech

Cat.	Qty 1+	Qty 4+	Qty 10+
XC4386	\$10.90	\$9.90	\$8.90

microSD Card Shield for Wi-Fi Mini

Add gigabytes of storage to your XC3802 Wi-Fi Mini Main Board with this tiny shield and a microSD card. If you are using the XC3802 Wi-Fi Mini Main Board as a WebServer or even for

datalogging, you're probably going to need more storage space, and this shield lets you use cheap microSD cards with the easy-to-use Arduino® SD library.

- CS on D8
- Stackable Headers pre-soldered to allow more shields to be added

 • Works with Arduino's inbuilt SD library
- 3.3V compatible only

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3852	\$10.90	\$9.90	\$8.90

compatability icons





For Microcontrollers

TEMPERATURE & **ENVIRONMENT:**

There's no shortage of Arduino* weather station projects online, and with the duinotech range of sensor modules, you can create your own fully featured version. Alternatively, if you just want to check if the plants need watering or know if the sun is shining or how hot it is outside, we've got you covered with the range here.

Photosensitive LDR Module

Measure light levels with this sensor module. This module uses a light dependant resistor to produce an output voltage that varies with light level. Connect it straight into your duinotech or other

Arduino® compatible board to build a night/day sensor, a sun tracker or combine it with our laser module XC4490 to make a laser trip wire.

- Operating voltage: 3-5VDCIncludes breakout cable
- Dimensions: 29(W) x 22(D) x 10(H)mm

duinotech



\$6.50

\$5.80



XC4446

RTC POWER POINT TIMER WITH ARDUINO®

Using Arduino* to control a 240V appliance but don't want to get zapped? Well then, here is your solution. Building on the simplicity of the Arduino* Clock, we've developed a project that interfaces to our MS6148 Remote Controlled Mains Outlet using a 433MHz transmitter and adding some extra code, gives you a mains timer with the following features:

- Switch on/off appliances with a minute of resolution
- Keeps time during power off
- Programme up to 99 timers
- Can be set for any or all days of the week, weekdays or weekends
- Can be set to turn single channel or all channels on or off
- Manual control of transmitter for setup and troubleshooting

And being Arduino®, there's nothing to stop you taking the code apart and adding your own features.

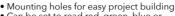
See step-by-step instructions at:



jaycar.co.nz/diy-rtcpowerpointtimer

Colour Sensor Module

One of the Arduino* projects that everyone should try is the coloured lolly sorter, and you can't build one of these without a colour sensor. The Colour Sensor Module can give individual greyscale, red, green and blue colour levels with just three IO pins, and features bright white LEDs for even illumination.



- Can be set to read red, green, blue or greyscale levels Very fast response times with PWM
- output





Cat.	Qty 1+	Qty 4+	Qty 10+
XC3708	\$22.90	\$20.90	\$17.90

Air Quality Sensor with CO2+Temperature

This air quality sensor can detect a wide range of volatile organic compounds (TVOCs), including equivalent carbon dioxide (eCO2) and metal oxide (MOX) levels. It also features a 10K precision 1% NTC thermistor, which can be used to measure the specific temperature in the environment. Equivalent carbon dioxide (eCO2) is measured in the range of 400 to 8192ppm (parts per million), and various volatile organic compounds (TVOC) ranges from 0 to 1187ppb (parts per billion). Includes 3mm mounting holes for fixed applications.

- Measures eCO2 & MOX levels
- Ultra-low power consumption
- CCS811B chip

- Precision NTC thermistor
 0-1187ppb TVOC Measurement Range
 400-8192ppm eCO2 Measurement Range





duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3782	\$39.90	\$35.90	\$31.90

Dust Sensor Module

Use this air quality sensor to detect the amount of dust in the air. The small board has a Sharp GP2Y1014AU optical sensor onboard that uses an infrared LED and photoelectric transistor to detect reflected light from dust in the air. Fine particles as small as 0.8µm in diameter can be detected, including smoke particles, such as cigarette smoke.



• Ultra-Low Power Consumption

 Analogue Voltage Output is Linear with Dust Density • 0.5V/(0.1mg/m3) Sensitivity

• Detects Particles as Small as • 0.9V Reference Voltage of



duinotech

Clean Air

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3780	\$27.90	\$24.90	\$21.90

Smoke Detector Sensor Module

A compact smoke detector module that can detect butane, propane, methane, alcohol, hydrogen, and smoke. Suitable for home automation and safety projects.

- Power: 5V
- Interface: Analogue
- Dimensions: 40(L) x 20(W)mm



Cat.	Qty 1+	Qty 3+	Qty 6+	
XC4470	\$9.90	\$8.90	\$7.90	

A106 ⊶ Freecall order hotline: 0800 452 922 jaycar.co.nz

TEMPERATURE / ENVIRONMENT CONTINUED

Alcohol Sensor Module

Using a MQ series gas sensor, this module easily adds alcohol detection to your project. An analog output can be used to monitor changes in alcohol concentration, while a digital output is triggered when the concentration exceeds a pre set threshold. Build your own breathalyser or automate your home-brewing.

- Twin Analog and Digital Outputs

- Adjustable sensitivity
 Operating voltage: 5VDC
 Dimensions: 50(L) x 20(W) x 13(H)mm



duinotech

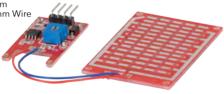
Cat.	Qty 1+	Qty 3+	Qty 6+
XC4540	\$11.90	\$10.70	\$9.50

Rain Sensor Module

Add another dimension to your Arduino* weather project. This compact module can be used to detect rain, and can be separated into a sensor and control board to keep the important bits dry.

- 5V supply needed.
- Adjustable sensitivityLED indicator
- TTL level output can drive 100mA, enough for a small relay or





duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4603	\$8.90	\$8.00	\$7.10

Soil Moisture Sensor Module

Automate your garden with Arduino* and use the Soil Moisture Sensor Module to detect when your plants need watering.

- Analog output
- Works on 3.3V or 5V
- Current less than 20mA
- Dimensions: 62(L) x 20(W) x 7(H)mm



Cat.	Qty 1+	Qty 5+	Qty 10+
XC4604	\$5.90	\$5.30	\$4.70

DHT11 Digital Temperature & Humidity Sensor

Measure both temperature and humidity with this nifty module. Full digital operation so no analog to digital calibration is required. Use when expecting rapid changes in temperature.

- Arduino* library available.
 Protocol: 1-Wire (Not Dallas 1-Wire, one data pin is required per sensor used)
- Operating Voltage: 3-5 VDC
- Temperature Range: 0 °C 50 °C +/- 2 °C
- Humidity Range: 20 80% +/- 5%
 Sample Rate: 1Hz
- Dimensions: 52(W) x 20(L) x 13(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4520	\$11.90	\$10.70	\$9.50

compatability icons





Temperature Sensor Module

This module provides a simple way to measure temperature. The module outputs an analog voltage that varies directly with temperature. Connect it straight to one of your duinotech analog inputs.

- Operating voltage: 5VDC
- 210mm breakout cable included
- Dimensions: 33(W) x 22(D) x 9(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4494	\$7.90	\$7.10	\$6.30

Digital Temperature Sensor Module

The DS18B20 Digital temperature Module provides up to 12bits of resolution and 0.5 degree accuracy through a single digital IO pin with no external components needed for connection to a microcontroller. Multiple devices can even be connected to the same pin.

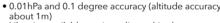
- Fully digital operation
- Conversion time less than 1 second
- Arduino[®] library (OneWire) available



Cat.	Qty 1+	Qty 4+	Qty 10+
XC3700	\$7.90	\$7.10	\$6.30

Barometric Pressure Sensor Module

There's heaps of different uses for a barometric sensor. such as using it to forecast the weather or measuring altitude. The Bosch BMP180 sensor also includes a temperature sensor, and is accessible via an I2C interface



- Libraries available to given direct altitude readout (search for BMP180)
- Tiny module size

Cat.	Qty 1+	
XC3702	\$11.90	

DHT 11 Shield for Wi-Fi Mini

Create a tiny environmental sensor node with the XC3802 Wi-Fi Mini Main Board and this DHT11 based temperature and humidity sensor shield. Pre-soldered stackable headers allow the shield to be plugged straight into Wi-Fi Mini Main board, and more boards to be added on top.

- Tiny sensor shield
- Uses pin D4 for DHT11 interface
 Arduino* libraries available
- · Suitable to plug into breadboard for prototyping

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3856	\$10.90	\$9.90	\$8.90



www.jaycar.co.nz/member-access

join now!

For Microcontrollers

PROTOTYPING & BREAKOUT:

The following parts are ideal for taking that design that you've squashed onto a breadboard, and making it into something more permanent. With prototyping space, you can solder individual components or even whole modules together to create a custom shield that is much more robust.

Prototyping Shield for Duinotech MEGA

This shield gives you plenty of room to prototype your latest MEGA project. The stackable shield provides access to all of the MEGAs pins and plenty of solder pads to prototype on. A small solder-less breadboard is included for fast prototyping.

• Dimensions: 106(W)x56(L)x19(H)mm

duinotech

	710 1 1 10	Ψ	Ψ.σσ	
Ductaturaina Chiala				
Prototyping Shield				

Cat

XC4416

Qty 1+

\$17 90

Qty 5+

\$16.10

This stackable shield makes semi-permanent prototyping simple.

When you want something more permanent than a breadboard, but don't want to make your own PCB, this shield is the answer. Provides solder-pad access to all of the Arduino*'s pins, and a large area of isolated pads.

• Includes reset button

- SOIC-14 breakout, for surface mount ICs
- Dimensions: 68(L) x 53(W) x 10(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4482	\$19.90	\$17.90	\$15.90

Prototyping Shield for Wi-Fi Mini

A prototyping shield to suit the XC3802 Wi-Fi Mini main board. Create custom hardware and add features to your project or build custom sensor nodes or output modules.

Includes:

- 1 x Protoboard
- 2 x Male Header Strip
- 2 x Female Header Strip
- 2 x Stackable Header Strip

**	11111	******		ППППП	
	Cat.	Qty 1+	Qty 3+	Qty 6+	
Prototyping Shield for Wi-Fi Mini	XC3850	\$5.60	\$5.00	\$4.40	

Breadboard Layout Prototyping Boards

A prototyping board that lets you transfer your breadboard design without having to rework it. Includes five holes on each side per row and power rails running the length of the board.

Two sizes to choose from: SMALL:

- 25 rows, 400 holes
- Similar layout to PB8820 Breadboard
- 73mm x 47mm x 1.4mm

- Similar layout to PB8815
- 155mm x 58mm x 1.4mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
400 hole	HP9570	\$5.60	\$5.00	\$4.45
862 hole	HP9572	\$10.90	\$9.90	\$8.90



Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

For Microcontrollers Programming

UPLOADING & CUSTOM:

If you feel like there isn't quite an Arduino® main board or module that suits what you're trying to build, or your stack of shields is just too big, the parts below can help you make the next step towards custom building your own board. The various programmers will also allow you to explore the world beyond what the default Arduino* IDE and bootloaders offers. Did you know you can even use the XC4464 USB to Serial Adaptor to program the XC4614 Wi-Fi Shield as though it was a stand-alone Arduino* board?

AVR ISP 10 Pin to 6 Pin Adaptor

Adaptor from 10 pin ISP header to 6 pin ISP header as found on Arduino* boards

- Use with an ISP programmer to update bootloaders or reflash bricked boards
- 10 pin plug to 6 pin socket

duinotech



ISP Programmer for AVR

Compatible with Arduino® boards with ISP, ZZ8727 ATmega328P MCU and fully supported by the Arduino* IDE, allowing you to unbrick, install or update Arduino*-compatible boards and your own custom-made projects.

 Compatible with a wide range of microcontrollers, including all Duinotech main boards

 10 pin ISP programming cable included (use XC4613 to convert

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4627	\$18.90	\$17.00	\$15.10

FTDI USB to Serial Module

A mini-USB to 6-pin serial port module used to communicate with Arduino* boards and modules. It uses the original FT232 chip with power/sending/receiving indicator and also a selectable 3.3V and 5V power option to suit different boards.

- 3.3V & 5VDC power switch
- Send & receive indicators
- Dimensions: 43(L) x 17(W) x 12(H)mm

duinotech

-		-			
	Cat.	Qty 1+	Qty 3+	Qty 6+	
	XC4464	\$24.90	\$22.40	\$19.90	

ATmega328P MCU IC with Arduino* UNO **Bootloader & 16MHz Crystal**

An Atmel AVR ATmega328P microcontroller for you to build your very own customised Arduino* compatible projects. For your convenience it comes with the Arduino® UNO bootloader preinstalled and features a label on top which details the pinouts. Includes 16MHz crystal oscillator.

- Same IO pins as Duinotech UNO Board
 O 4MHz @ 1.8 5.5V,
 O 10MHz @ 2.7 5.5V,
 O 20MHz @ 4.5 5.5V

 28-pin DIP format for easy use in breadboards or Arduino compatible boards



Freecall order hotline: 0800 452 922

duinotech

Cat.	Qty 1+	Qty 10+	Qty 25+
ZZ8727	\$15.90	\$14.30	\$11.10

p.A140 - Development Boards -



DIY Projects

AV & COMMS PROJECTS:

Finished projects shown

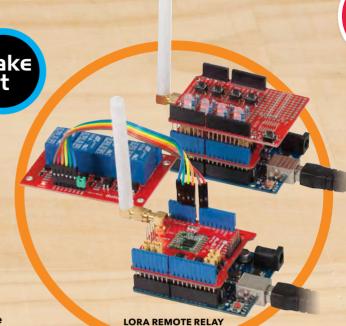


Make a Metronome

We usually think of soldering irons, pliers and oscilloscopes when we think of electronic tools, and while this project may not be useful to the electronics enthusiast, we think it's a good way of showing how Arduino* based tools can be useful in other fields- in this case for musicians.

The Duinotech Metronome has adjustable tempo between 20 and 240bpm, and can be set to accent anywhere between every beat and every eighth beat. It also gives a display of the classical name for that tempo.

jaycar.co.nz/metronome



DIY Projects

LORA PROJECT:

LoRa Remote Relay

We are very excited to get the chance to play with our new LoRa Shields, and test just how far we could get a signal using LoRa technology.

With one of our tests, we were able to get a signal to travel about 200m, including through the corrugated iron of the warehouse and the concrete office building.

We set about building a practical project that would make best use of the technology.

The LoRa Remote Relay is basic- four buttons at one end and four relays at the other end.

It also has LED's next to the buttons, so unlike other remote relay systems, there is feedback that the relays are operating as commanded.

jaycar.co.nz/lora-remote



Build a Programmable Remote Control

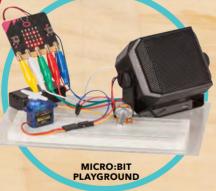
One of the really great things about the Arduino* community is how many extra features they have added to the IDE.

In this project, we'll be using a library which has been created by one of the members of the Arduino* community, and has been added to by other members.

It's a Programmable Remote Control, which is perhaps similar to a 'Learning Remote Control', except that it can give a lot more information about the codes it is sending. Check out the library documentation for the protocols that are supported. Some soldering required!

You'll also need some offcuts of wire to build the project- we used some coloured ribbon cable offcuts to help identify which wire is which.

jaycar.co.nz/prog-remote-control



micro:bit Playground

Play around with the basics of micro:bit. There's three games to build:

Game 1: Keep in beat of the music.

Game 2: Find the point via sound.

Game 3: Get the servo to 90° for 3 seconds...

jaycar.co.nz/microbit-playground

MORE DIY PROJECTS ONLINE:

There's plenty of other projects to build on our website.





jaycar.co.nz/projects

DIY Projects

MONITORING PROJECTS:

Finished projects shown



DIY Project PROGRAMMING:

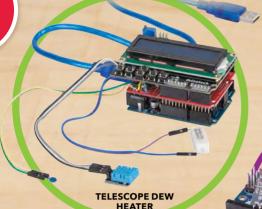


PROGRAMMER

Build a UNO Programmer

The idea of using an UNO to program an UNO sounds a bit meta, but with a USB Host Shield, we managed to program our UNO's. In fact, the programming only takes about three seconds per board, which is even faster than we could unpack them. Some soldering required.

jaycar.co.nz/uno-programmer



Make a Telescope Dew Heater

This project brings together a few Duinotech modules and some other parts to create a versatile tool

Inspired by the Dew Heaters used on telescopes, it senses ambient temperature and humidity to control a small heater.

Not just for telescopes, but anything that needs to avoid condensation.

Features include:

- Programmable temperature setpoint
- Temperature target can be set above ambient or dewpoint
- Settings can be saved to EEPROM
 Adjustable failsafe heater output to use if
- sensors are faulty
 Comprehensive LCD info screen

jaycar.co.nz/diy-telescope-dew-heater

Trailer Voltage Monitor

One of the guys at the office here asked if I could build an Arduino device for monitoring the voltage of the 12V battery in his trailer- as now required for registration of some trailers which have electric brakes. Here's what we built- and it's a bit cheaper than some of the offerings out there. jaycar.co.nz/trailervoltagemonitor

TRAILER VOLTAGE

MONITOR

DUINOTECH THERMOSTAT

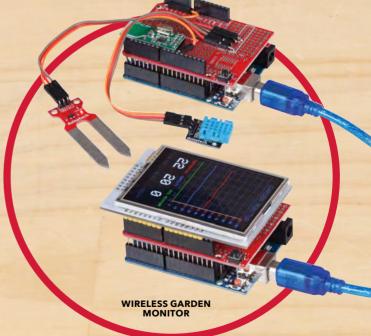
Make a Duinotech Thermostat

Here's a project that will take you into the world beyond the basics of the duinotech Learning Kit. We're going to build a project that shows how we can use the Learning Kit with other modules, and also how to incorporate an external library to extend our programming possibilities.

It's a thermostat, which is nothing more than a relay which responds to temperature

We've added some colour to it by connecting some LEDs to give an indication of the current temperature

jaycar.co.nz/arduino-thermostat



Build a Wireless Garden Monitor

Here's a project that uses two Arduino* boards to communicate wirelesslythe first Arduino* reads a soil moisture sensor and a temperature and humidity sensor, and sends the data to a second Arduino that displays the data in a graph and text. You can use it to monitor when your garden needs watering, or even as a basic weather station. Alternatively, you could use completely different sensors to create your own custom monitor.

jaycar.co.nz/wireless-garden-monitor

RETRO > Gaming

Now you can create your own Retro Gaming console and still have professional controls and finish.

These enclosures allow you to install your own Raspberry Pi and get a true retro experience, with quality user controls.



Raspberry Pi Retro Arcade Game Consoles

Let the games begin with this exciting retro arcade console. The console with classic design features a joystick with six buttons for two players, Simply install a Raspberry Pi V3 or V4 into the console, insert a Retropie installed microSD card, copy over some ROMS and you are ready to battle and enjoy some of your old favorites. The brains of this arcade console is a Rapsberry Pi, video is sent via HDMI to connect to a TV, computer monitor or projector, and an audio out via the Raspberry Pi's 3.5mm headphone jack allowing you to connect to an amplifier or active speakers. The case measures 650mm wide and has anti-slip rubber feet for stability. Supplied with mains power adaptor, 3m VGA lead, 3m HDMI lead, 3m USB lead, and two replacement gaming buttons. Recommended for ages 15+



Dimensions	650(W) x 235(D) x 125(H)mm			
	Cat. Qty 1+			
HDMI Connection	XC9062	\$109.00		

Build your own Pi Retro Arcade Game Console

Be the envy of all your mates with the mini table top Raspberry Pi retro arcade console, boasting a massive 10 inch LCD screen, there is plenty of gaming real estate to enjoy all your favorites form back in the day, built in speaker will have you remembering your child hood noises with clarity. The console with classic design features a joystick with six buttons, Simply install a Raspberry pi V3 or V4 into the console, insert a Retropie installed micro sd card, copy over some ROMS and you are ready to battle and enjoy some of your old favorites.

• 290(L) x 345(H) x 280(W)mm

Note: Requires Rasperry Pi (XC9001 p.A88) and Retro Pi Operating System (XC9031 below)

	Cat.	Qty 1+
10" Screen	XC9064	\$189.00

XC9031

RetroPie OS on SD Card for Raspberry Pi

Preloaded with RetroPie, and auto-installs when used for first time. 16GB microSD card. Supplied with an SD card adaptor.



\$28.90

Retro Gaming with Raspberry Pi Book

This 164-page book shows you how to set up a Raspberry Pi to play classic games, and a whole lot more. Build your own portable console, full-size arcade cabinet, and pinball machine with our step-by-step guides. And learn how to program your own games, using Python and Pygame Zero.



	Cat.	Qty 1+
164 pages	BM7166	\$39.90

Retro NES Hardware for Raspberry Pi

Our retro inspired controller and gaming case is perfect for building a Raspberry Pi based emulator with that nostalgic feeling. The controller provides a genuine feel, while the case includes access to all ports on your Raspberry Pi, additional USB ports, & a handy storage slot for your spare SD cards.

Note: Requires Raspberry Pi (XC9001 p.A88) and Retro Pie Operating System (XC9031 left)



	Cat.	Qty 1+	Qty 4+	Qty 10+
JSB Controller	XC4404	\$10.90	\$9.90	\$8.90
Case 120 x 95 x 44mm	XC4403	\$34.90	\$30.90	\$27.90

Retro NES Gaming Case for Raspberry Pi4

Our retro inspired gaming case is perfect for building a Raspberry Pi 4 based emulator with that nostalgic feeling. Includes access to all ports on your Raspberry Pi, additional USB ports, and a handy storage slot for your spare microSD cards. Features cut-outs for the dual micro HDMI,

Audio/Video, USB and Ethernet ports, as well as the USB-C power connector and access to the microSD card.

Note: Requires Raspberry Pi 4 (XC9104 p.A88) and Retro Pie Operating System (XC9031 shown above)



	Cat.	Qty 1+	Qty 4+	Qty 10+
ase 143(W) x 115(D) x 54(H)mm	XC4401	\$39.90	\$35.90	\$31.90







MICRO:BIT & ACCESSORIES

BBC micro:bit V2 GO Development Board Bundle

The micro:bit is an open source system originally designed by the BBC for use in computer education in the UK and is now available in Australia. Described as being about half the size of a credit card, you can use the accelerometer to detect movement and tilting or the magnetic sensor to detect metal or create a compass. Uses for the 5 x 5 LED display are limited only by the imagination and 2 on-board input push buttons provide instant control. Another 3 inputs are provided via the 5 ring connectors (the other 2 are for power and ground) which can be accessed via alligator clips or banana connectors. On top of this, the ring connectors form part of a larger 23 pin edge connector for more advanced projects. And if that isn't enough, USB and Bluetooth* connectivity allows interfacing with other peripherals! The version two micro:bit board comes now with microphone and speaker so you have easier ways to use sound and touch to get creative. Programming can be done via Microsoft MakeCode or MicroPython, both of which are available on the micro:bit foundation website. Power is via USB or the provided 2 x AAA battery holder (batteries included)

Microphone LED indicator



Very easy to operate



micro·hit V2 G0

micro:bit Bluetooth

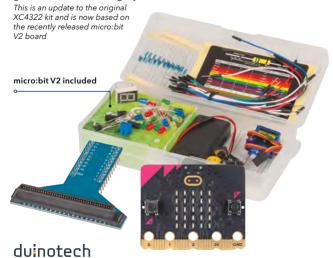
Specifications	XC4324
Bluetooth'	V5.0
CPU	Nordic Semiconductor nRF52833 64MHz
GPU	16 MHz ARM Cortex-M0 microcontroller
RAM	128kB
Flash Memory	512kB
Dimensions	52(L) x 43(W)mm
	Cat. Qty 1+

XC4324

\$46.90

Duinotech BBC micro:bit V2 Starter Kit

If you are just getting started in the world of electronics and coding or want that ideal gift for a young maker, this kit is the perfect choice. No soldering or prior programming knowledge is required. At the heart of the kit is the micro:bit V2 board which is a powerful, handheld fully programmable microcomputer, designed by the BBC. It has an accelerometer to detect movement and tilting, a magnetic sensor to detect metal or create a compass, and up to 23 inputs to connect to the physical world. The board also has a 5 x 5 LED display and two onboard input push buttons provide instant control. The kit includes common electronics components from resistors to a servo motor, and all the necessary prototyping accessories to get building. A 36-page beginner's guide is also included to get you started.



	Cat.	Qty 1+	Qty 3+	Qty 6+
micro:bit V2 included	XC4326	\$119.00	\$106.90	\$94.90

Breakout Board with 2 x AA Battery Holder

Provides an independent 3V power supply to your micro:bit project and enables you to interface to other hardware. Features a power switch, DIP switch for controlling the power input, and provision for two AA batteries onboard. A 170mm long power lead is also included.



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+	
80(L) x 58(W) x 19(H)mm	XC4330	\$22.90	\$20.90	\$17.90	

Breakout Board to External Sensors

Enables you to connect multiple sensor modules to your micro:bit. Breaks out all IO pins on the edge of the micro:bit main board for you to connect alligator clips or jumper wires. Power can be

provided from the battery pack connected to the micro:bit from the alligator clip terminals or by using the pin headers Four mounting holes are provided so you can mount the shield to a

• 2.54mm Pin Pitch

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
$76(L) \times 63(W) \times 12(H)$ mm	XC4336	\$16.90	\$14.90	\$13.90

Prototype Board with 400 Pin Breakout Board

Designed to break out all of the IO pins on your micro:bit for you to create additional circuits and hardware. Prototype

using the supplied 400-hole breadboard or solder directly to the board for a permanent circuit. Onboard headers provide input and output connections and an integrated power supply provides 3V power from a connected 5-9VDC power adaptor (not included).

GND



	Cat.	Qty 1+	Qty 3+	Qty 6+
105(L) x 85(W) x 13(H)mm	XC4332	\$27.90	\$24.90	\$21.90

T-Adaptor Shield

Use this breakout board to access all 23 pins on the micro:bit in order to create additional circuits and hardware. Simply insert your micro:bit firmly into the edge connector and plug the shield directly into your breadboard.

80 Pin Connector

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
70(L) x 58(W) x 20(H)mm	XC4334	\$16.90	\$14.90	\$13.90

Getting Started with BBC micro:bit

This book will show you how the micro:bit can be used in a wide range of applications from simple domestic gadgets to more complex control systems such as those used for lighting and security applications. Using Microsoft Coding Blocks, the book provides a progressive introduction to coding as well as interfacing with sensors and transducers.

Soft cover, 128pages, 198x129mm

	Cat.	Qty 1+
128 Pages NEW	BM7168	\$29.90

Python Coding on BBC micro:bit

Python is a leading programming language, easy to learn and widely used by professional programmers. This book uses MicroPython, a version of Python adapted for the BBC micro:bit. This book is written in plain English and avoids technical jargon wherever possible to cover coding instructions common to most programming languages. Suitable for any age or level of experience.

• Soft cover, 200x129mm

	Cat.	Qty 1+	
128 Pages NEW	BM7170	\$29.90	





WEARABLE HARDWARE

WEARABLE TECHNOLOGY HARDWARE

These products are designed to be sewn onto a costume or fabric based project to provide amazing lighting effects. Combine with other LED Raft Pads, Slide Switch Power Pads, and Battery Holder Power Pads, sold separately, to create a dazzling 'light show' on your e-clothing, cosplay outfit, mask, hat, hero cape, jacket, handbag and other theatrical designs. Sew together using the Stainless Steel Conductive Thread.

LED Raft Pads

The lightweight board measures approximately 13mm in length and has a surface-mount LED with resistor to limit the current. Two large sew tabs enable you to easily sew the raft pad onto the fabric using conductive thread (use WW4100, sold separately).

Specifications	ALL
Power	3.0V Typical, 3.3V max.
Dimensions	13(L) x 5.5(W) x 2.5(H)mm

Colour	Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
Red	10	KM1038	\$7.90	\$7.10	\$6.30
Yellow	10	KM1034	\$7.90	\$7.10	\$6.30
Green	10	KM1036	\$7.90	\$7.10	\$6.30
White	5	KM1032	\$5.80	\$5.20	\$4.60

RGB LED Raft Pads

The lightweight board has a surface-mount RGB LED with resistor to limit the current. The LED is addressable, which means they can be daisy-chained together and controlled individually from a microcontroller

(eg. Arduino). Four sew tabs enable you to easily sew the raft pad onto the fabric using conductive thread (use WW4100,

soid separately).		0 - 10 CI + 0
Specifications	KM1040	01 LES 00
Power	3.0V Typical, 3.3V max.	
Dimensions	20(L) x 10(W) x 3.5(H)mm	DI LED DO

Colour	Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
RGB	5	KM1040	\$7.90	\$7.10	\$6.30

Power Pad

The lightweight board measures just under 30mm in diameter and has four small mounting holes for you to easily sew the board onto the fabric using conductive thread (use WW4100 sold

separately). The battery holder supports CR2025 or CR2032 batteries (not included).

	1
Specifications	KM1060
Battery	Supports CR2025 or CR2032 cells
Dimensions	29(Dia.) x 6(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pack of 2	KM1060	\$8.90	\$8.00	\$7.10

Power Pad Slide Switch

The lightweight board measures just 18mm in length, and has two large mounting holes for you to easily sew the board onto the fabric using conductive thread (use

Specifications	KM1058
DC Rating	500mA
Switch	SPST
Dimensions	18(L) x 7.5(W) x 5(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pack of 2	KM1058	\$8.90	\$8.00	\$7.10

Silicon Rubber Hook up Wire for Electronic Clothing

This wire is superior to conductive thread for wiring clothing for LED lighting effects in clothing. It is insulated so wires can cross over each other without short circuits. It is extremely flexible and can be sewn (with a large needle) but it is better to hot melt glue the wires in places. It works well for large, complex clothing lighting projects where crossover wiring is very desirable.

	Cat.	Qty 1+	Qty 4+	Qty 10+	
8m	WH3	3034 \$13.90	\$12.90	\$10.90	
8m	WH3	3036 \$13.90	\$12.90	\$10.90	

Stainless Steel Conductive Thread 2m

A highly flexible thread made conductive by the inclusion of stainless steel strands. You can feel the extra weight that the stainless steel gives. The thread is a dark silvery grey, and is great for adding electrical elements

- to textiles such as fabric. • Maximum current 500mA Tie onto modules and
- components to make a



Sparkle Stitch Kit

This kit includes all it takes for anyone (even boys) to make illuminated theatrical - type masks and clothing using ultra bright LED's and batteries. Included in the kit is: lots of coloured felt on which to base your creations, a hot glue gun, conductive sewable thread, batteries, battery holders and LEDs, a 62 page electronics guide with patterns for light up masks, a multimeter, special sewing needles and other sewing accessories Everything you need is in the kit except perhaps a good pair of scissors which your mum will undoubtedly have. So

get started! This is your first step to becoming a famous theatrical designer! Oscars - here we come.

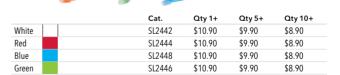
• Case dimensions: 330(L) x 220(D) x 120(H)mm

Make light up masks	!		
	Cat.	Qty 1+	
Kit	KM1080	\$99.00	

3m EL Wire

Add amazing colourful lighting to your party, costume, signage, decorations, etc. These 3m long flexible wires can be bent into most shapes and glow (similar to a neon light) when power is applied. Power is provided using the compact EL controller (SL2440 sold separately), which runs off 2 x AA batteries, making it extremely versatile and portable. At only 2.3mm diameter it can be easily stitched into clothing or fastened

with cable ties. Excess length can be cut off to suit your application (note: can't be re-joined). Up to 3 x EL wires can be connected at the same time to the same controller using 2 or 3 way splitters (sold separately). Requires SL2440 EL Wire Power Supply and Controller (sold separately)



EL Wire Power Supply and Controller

Small enough to fit in your pocket or stitched into a costume, and can power up to 3 x EL wires using the splitters available separately. Features a pocket clip and a push button to switch between constant or two flash speeds. Note: The controller circuit may emit a high pitch sound when in operation. This is normal due to the built-in inverter.

Ca	at. C	2ty 1+ (Qty 5+	Qty 10+
EL Wire Power Supply SL	2440 \$	510.90	\$9.90	\$8.90

Splitter for EL Wire

Connects the SL2440 EL wire power supply and controller to multiple lengths of EL wire. Available in 2-way or 3-way versions with each outlet capable of connecting a full 3m length of EL wire*. Power supply/controller and EL wire lengths sold separately. * Note: Overall light output will drop when using splitter with full 3m lengths compared to direct connection to power module. To maintain maximum light output the total length connected to the splitter needs to be under 5m.



	Cat.	Qty 1+	Qty 5+	Qty 10+	
2 Way Splitter for EL Wire	SL2441	\$3.30	\$2.90	\$2.60	
3 Way Splitter for EL Wire	SL2443	\$3.30	\$2.90	\$2.60	

For Microcontrollers

WHEELS & CHASSIS:

Making things that move is really exciting, but it can also be challenging to build. We make it easy by providing all the bits and bolts you need to make solid and rugged moving vehicles. Combined with other components, such as the Ultrasonic proximity sensor, motor driver and any one of the Arduino range of boards, and your next weekend project could be an impressive intelligent buggy.

2 Wheel Drive Motor Chassis Robotics Kit

These two kits make creating your own robot easier than ever. The kit includes motors, wheels, tyres and two pre-drilled mounting plates. These kits are ideal for an Arduino* or pcDuino robotics project.

- Pre-Drilled mounting plates
- One motor + gearbox per wheel
- Motor voltage: 5-10VDC

Dimensions:

215(L) x 160(W) x 100(H)mm Note: Accessories not included





duinotech

Cat.	Qty 1+	Qty 3+	Q ty 6+
KR3160	\$48.90	\$44.00	\$39.10

DC Geared Motor with Rubber Wheel

DC geared motor with rubber wheel suitable for your Arduino* vehicle based/robotics applications. Also a suitable replacement for the 2WD (KR3160) and 4WD (KR3166) car chassis

- DC motor: Working voltage 5-10VDC
- Gear ratio: 48:1
- 1 x plastic tyre wheel / 1 DC Gear Motor
- Bi axial can match speed encoder
- Convenient speed measurement
- Dimensions: 66(Dia.) x 28(W)mm



duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
YG2900	\$11.90	\$10.70	\$9.50

6V Micro Motor with Mounting Bracket

This small gearhead motor with bracket suits robotics and other maker applications. It runs from 6VDC, travels counter-clockwise, and provides a 1:30 gear ratio with a rated speed of 600RPM. Micro wheels to suit are available separately (use YG2902). 0.5kg Torque.

Specifications	YM2800	
Rated Voltage	6VDC	
Voltage Range	5.4-6.6VDC	C. C.
Gear Ratio	1:30	
Rotation Direction	CCW	
No Load Current	<35mA	
No Load Speed	600RPM	
Torque	0.5kg	
Bracket Dimensions	26(W) x 12(H) x 12(D)mm	
Motor Dimensions	37(L) x 13(W) x 10(H)mm	

YM2800 \$18.90 \$16.90

Cat.

Qty 1+

Micro Wheels Tyres

A pair of wheels to suit the YM2800 gearhead motors.

- 34mm in diameter
- Sold as a pair



Qty 5+

Qty 10+

\$14.90

	Cat.	Qty 1+	Qty 5+	Qty 10+
Sold as a pair	YG2902	\$7.90	\$7.10	\$6.30

4 Wheel Drive All Metal Chassis Car Kit

An easy to build chassis kit with all metal construction. Supplied with four motors with wheels, and everything you need to build the frame. Multiple mounting points make it easy to mount your favourite sensors, such as the XC4442 Ultrasonic Sensor. A motor controller (XC4472), UNO microcontroller (XC4410) and



4 x AA batteries are available separately to get your 4WD robot in action.



For Microcontrollers

STEPPERS & SERVOS:

Stepper and servo motors are used whenever you want to precisely control rotation or angular motion. Many DIY 3D printers utilise several stepper motors controlled by an Arduino* based controller. We have a wide range of stepper and servo motors to suit different applications.

5V Stepper Motor & Driver Set

A small and versatile motor and driver set, 5VDC stepper motor controlled by the ULN2003 driver can be used with any Arduino* or compatible board via jumper leads.



- Stepper motor size: 28mm diameter
- Step angle 5.625 x 1/64
- Reduction ratio 1/64
- LED indicators
- Driver board size 35(L) x 32(W) x 10(H)mm





Pan & Tilt Action Camera Bracket Mount for 9G Servos

This camera bracket mount is the easy way to add pan and tilt functionality to your next robot or Arduino* project. Add two 9G servos (YM2758) to complete assembly. The clips on the

front are designed for an action camera to clip straight in. Or even mount an XC4442 Ultrasonic Sensor and create an Arduino* controlled sonar, or an XC4478 Accelerometer to create a levelling gimbal. Easy to assemble.

din





- · Clamp for servo wires
- Servos not included
- Dimensions: 35 x 55 x 35mm (Assembled)

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4618	\$5.90	\$5.30	\$4.70

9G Micro Servo Motor

Micro servo motor, perfect for use with XC4618 Pan and Tilt bracket. Small enough to connect directly to an Arduino* Board for experimenting.

- 3.5V- 6V Supply Voltage
- 500 degrees/second at 6V
- 1.6kg.cm at 4.8V
- Dimensions: 30 x 30 x 10mm
- Cable Length: 250mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+	
YM2758	\$13.90	\$12.90	\$10.90	

ELECTRIC MOTORS

MOTORS & GEARBOXES

Low Cost Motor / Gearbox Set

This unit comes complete with a 3V 12,000 rpm motor*. It can be stepped down (with the consequent torque multiplication) up to six times as shown below. The motor is fitted with a 12 tooth pinion and the small gear cluster is 12 tooth. The large clusters are all 48 tooth. Not all gears need to be used. The intermediate output shafts are hardened steel, 3mm dia. Also supplied are press fit pulleys. The whole assembly snaps together. Hand tools are almost unnecessary.

*Motor can also be varied by changing input voltage but this lowers torque.

- Motor cage 40(H) x 25(W) x 28(D)mm
- Gearbox cluster 40(W) x 25(D) x 30(H)mm

• Main & intermediate shafts - 63 x 3mm Dia. Supplied in kit form

Specifications	RPM	To land the same of the same o
12,000 x 12/48	3,000	
3,000 x 12/48	750	
750 x 12/48	187.5	
187.5 x 12/48	46.875	
46.875 x 12/48	11.72	446
11.72 x 12/48	2.93	

Cat.	Qty 1+	Qty 5+	Qty 10+
YG2730	\$16.90	\$14.90	\$13.90

Dual Motor Gearbox Kit

Great for simple robot and tank projects Independent motors for skid-steer controls.

- Rubber tired wheel and crank arm options
- Mountings for horizontal and vertical use
- Three gear ratios included, can be changed by building with different gears from kit
 • 1:60, 200RPM, 1:120, 100RPM, 1:288, 42RPM



 ,	,,			
	Cat.	Qty 1+	Qty 3+	Q ty 6+
	KJ9029	\$22.90	\$20.90	\$17.90

GEARBOX SPEEDS

Note: All DC motors and motor gearboxes can change speed to a considerable amount by changing voltage within specified limits. This reduces need for special gear ratios for your application.



Hand Crank Dynamo with Geared Motor

Here's a great gadget that will allow you to add Green power to any of your projects. What we have here is a hand crank dynamo, pre-assembled but easily modified to be retro-fitted to existing equipment or added to new projects. Crank the handle and the specially designed gear set will operate the motor and produce a DC voltage which can be used for a variety of low current uses (charging batteries, lights etc.). Crank slowly and the voltage is low, crank harder and the voltage is higher. Made from plastic - easy to re-work to fit your projects.



Cat.	Qty 1+	Qty 5+	Qty 10+
MD7000	\$29.90	\$26.90	\$23.90

STEPPER MOTORS

12VDC 48 Step / 7.5° Stepper Motor

Standard 48 step / 7.5° design, with flange mount 3mm hardened steel shaft. Suitable for object control, numerical control etc





WARRANTY

700g.cm			The same
Cat.	Qty 1+	Qty 5+	Qty 10+
YM2754	\$31.90	\$28.70	\$25.50

NEMA17 Stepper Motor

Two phase stepper motor with 1.8° ±5% per step.

Specifications	YM2756
Voltage	12VDC
Operating Current	1.7A per phase
Stepper Control	4 wire
Torque	54g/cm ²
Holding Torque	40g/cm ²



YM2756 \$29.90 \$26.90 \$23.90	

MOTORS

Standard DC Motors

THESE ARE NOT TOY MOTORS. Each motor briefly described below is a quality product with hardened drive shaft, sintered bearings and quality commutator brushes etc. They are ideal for any application where a compact

high torque and reliable motor is required. Each motor is provided with a full data sheet which includes motor speed/torque/current/efficiency curves etc. Generous discounts for quantity purchases.

- 2.3mm driveshaft
- M2.6 threaded mounting
- Generously ventilated
- Solder tag terminals



Specifications	YM2712	YM2716	YM2718
VOLTAGE (V)	6	12	12
NO LOAD			
Speed (rpm)	16,200	14,500	14,600
Current (A)	0.55	0.28	0.67
AT STALL			
Torque (g.cm)	191	372	1,200
Current (A)	5.6	5.21	17.2
AT MAX EFFICIENCY			
Efficiency (%)	49.6	66.1	55.1
Power (W)	5.96	5.56	26.5
Speed (rpm)	9,679	13,544	10,489
Torque (g.cm)	60	40	246
Current (A)	2.0	1.0	4.0
AT MAX POWER			
Speed (rpm)	7,845	8,266	9,304
Torque (g.cm)	80	160	326
Current (A)	2.6	2.4	5.0
DIMENSIONS (mm)			
Diameter	27.6 / 2.3	27.6 / 2.3	35.8 / 3.175
Total / Shaft Length	51 / 12.5	57 / 13	71 / 9.5
Mounting Thread Dia	2.6	2.6	3.0

RPM	Volt	Cat.	Qty 1+	Qty 5+	Qty 10+
16,200	6	YM2712	\$10.90	\$9.80	\$8.70
14,500	12	YM2716	\$12.90	\$11.60	\$10.30
14,600	12	YM2718	\$21.90	\$19.90	\$17.90

Hobby Motors

Two models available. Ideal for hobbyist, experimenters, robotics and as replacements.

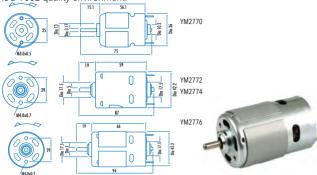
Specifications	YM2706	YM2707
Torque	Low	Medium
Operating Volts	1.5-4.5V	1.5-4.5V
Nominal Volts	3V	4.5V
Speed (No Load)	12000rpm	12500rpm
Current (No Load)	0.28A	0.25A
Speed (Max Eff)	8540rpm	9560rpm
Current (Max Eff)	0.69A	0.81A
Torque (Max Eff)	7.94gcm	17.86gcm
Diameter	20mm	23.6mm
Total Length	25mm	25mm
Shaft Length	8.1mm	6.5mm
Shaft Dia	2mm	2mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Low	YM2706	\$4.30	\$3.85	\$3.45
Medium	YM2707	\$5.90	\$5.30	\$4.70

MOTORS CONTINUED

Standard (High Power) DC Motors

High speed and power from these compact ferrite magnet type DC motors. All units feature hard steel drive shafts, long life design and are built in an ISO 9002 quality environment.



M4.0x0.7	94			
Specifications	YM2770	YM2772	YM2774	YM2776
VOLTAGE (V)	12	6	12	12
NO LOAD				
Speed (rpm)	11,800	20,000	18,800	9,700
Current (A)	0.8	4.0	2.6	1.3
Operating Range (V)	6-12	3-6	6-12	6-18
AT STALL				
Torque (g.cm)	2700	1910	4900	6000
Current (A)	26	67	92	57
AT MAX EFFICIENCY				
Efficiency (%)	76	57	71	73
Power (W)	43	45	107	52
Speed (rpm)	9800	13730	15520	8490
Torque (g.cm)	420	320	670	600
Current (A)	4.7	13.5	12.8	6.0
DIMENSIONS (mm)				
Diameter	36	42	42	42
Total / Shaft Length	75 / 15	87 / 19	87 / 19	94 / 19
Shaft Diameter	3.17	5.0	5.0	5.0
Mounting Thread	M3	M4	M4	M4

RPM	Volt	Cat.	Qty 1+	Qty 5+	Qty 10+
11,800	12	YM2770	\$16.90	\$14.90	\$13.90
20,000	6	YM2772	\$25.90	\$22.90	\$20.90
18,800	12	YM2774	\$22.90	\$20.90	\$17.90
9,700	12	YM2776	\$22.90	\$20.90	\$17.90

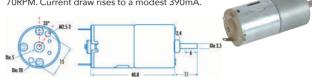
12VDC Reversible Gearhead Motors

The motors work equally well in forward or reverse motion. More specifications available on our website.



Specifications	YG2732	YG2734	YG2738
Torque G.cm	2100	12,000	50,000
Rated Voltage (Volts)	12.0V	12.0V	12.0V
Operating (Volts)	4.5 - 18Vmax	4.5 - 18Vmax	6 - 12Vmax
Current - No Load (Ma)	30	70	<450
Current - Full Load (Ma)	390	1380	14000
Gear Ratio	82:1	244:1	50:1
Shaft Speed (Rpm)	70	36	160

This compact unit will give a massive 2.1 kg.cm of torque at 70RPM. Current draw rises to a modest 390mA.



YG2734

Only slightly larger than the unit above, but with a massive increase in torque at 36RPM. Ideal for driving wheels or other traction devices



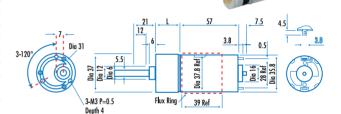




YG2738

For heavy duty applications. Massive 50kgs torque at 55RPM





RPM	Volt	Cat.	Qty 1+	Qty 5+	Qty 10+
70	12	YG2732	\$18.90	\$17.00	\$15.00
36	12	YG2734	\$29.90	\$26.90	\$23.90
55	12	YG2738	\$53.90	\$48.40	\$42.90

SERVOS

9G Micro Servo Motor

Micro servo motor, perfect for use with XC4618 Pan and Tilt bracket. Small enough to connect directly to an Arduino® Board for experimenting.

- 3.5V- 6V Supply Voltage
- 500 degrees/second at 6V 1.6kg.cm at 4.8V
- Dimensions: 30 x 30 x 10mm



Cat.	Qty 1+	Qty 5+	Qty 10+	
YM2758	\$13.90	\$12.90	\$10.90	

Servo Motor - Standard 6V with Metal Gear

- High speed and high torque digital servos
- Dual ball bearing
 Metal gears for maximum strength and durability
- Operating Voltage: 4.8-7.2V
- Connector wire: 32cm
 Includes control horns and screw set
- Weight: 55g

40.7 x 19.7 x 42.9mm (Standard)			
	Cat.	Qty 1+	Qty 5+	Qty 10+
Torque 4.8V 13kg.cm, 0.25 sec/60°	YM2763	\$46.90	\$41.90	\$36.90
Torque 4.8V 11kg.cm, 0.20 sec/60°	YM2765	\$46.90	\$41.90	\$36.90

Mini Servo 4.8V-6V

Mini sized servo perfect for remote control gadgets or

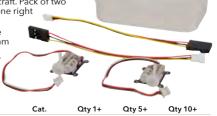
	·	
Specifications	YM2760	
Dimensions	35(L) x 16.9(W) x 32(H)mm	
Weight	26g	
Torque 4.8V	3400g.cm	
Transit Time 4.8V	0.19 sec/60°	
Torque 6V	4200g.cm	
Transit Time 6V	0.15 sec/60°	

sec/ou					
Cat.	Qty 1 +	Qty 5+	Qty 10+		
YM2760	\$29.90	\$26.90	\$23.90		

Micro Linear Servo Motor

These tiny linear servo motors provide 10mm of linear throw with high speed movement. Small and light for RC aircraft. Pack of two units- one left hand and one right hand

- 3.7V 5V supply voltage Measures 22 x 15 x 12mm excluding leads
- 0.12s for full travel at 5V Worm drive for zero-power position holding



Cat.	Qty 1+	Qty 5+	Qty 10+
YM2748	\$45.90	\$40.90	\$35.90

SOLENOIDS & TRANSMISSIONS

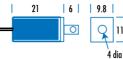
SOLENOIDS:

Range of DC & AC solenoids and actuators. Made to our factory Specifications. You can safely design them in knowing that they will be available over the long term. Generous quantity discounts. See website for datasheets.



Ultra Miniature 12V

Small square frame unit, Pull type. Full data supplied with unit.

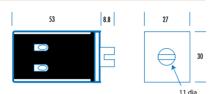


	4 0	IIa
Specifications	SS0900	
Coil Resistance	131Ω 10 watt (max)	
Pulling Force	20 - 160g (25% duty cycle)	
Stroke	0.5 - 4.0mm (25% duty cycle)	
Total Weight	10g	
Plunger Weight	2g	
	Cat Oty 1+ Oty 5+ Oty 10+	

SS0900

Standard 12V

Regular size square frame unit, Pull type, solder tip. Full data supplied with unit.



\$15.20

\$13.50

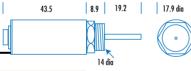
\$16.90

Specifications	SS0902	
Coil Resistance	24Ω	TC-12E
Rated Power	6 watt	CC. Too. oo
Pulling Force	200g-2kg (25% duty cycle)	
Stroke	2.0 - 12mm (25% duty cycle)	
Total Weight	205g	
Plunger Weight	39g	

Cat.	Qty 1+	Qty 5+	Qty 10+
SS0902	\$39.90	\$35.90	\$31.90

Tubular 12V

Compact size, Push type. Full data supplied with unit.

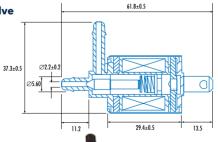


Specifications	SS0903
Coil Resistance	25.6Ω 20 watt @ 25% duty cycle
Pulling Force	220 - 940g (25% duty cycle)
Stroke	1.0 - 6.0mm (25% duty cycle)
Total Weight	81g

				4.1 (8)		
Total Weight	81g					
		Cat.	Qty 1+	Qty 5+	Qty 10+	
		SS0903	\$39.90	\$35.90	\$31.90	

12VDC Solenoid Valve

Air valve solenoid, normally closed. Standard 1/4" Barb type hose fittings.



Specifications	SS0905	
Operating Voltage	12VDC	A SAMPLE
Operating Current	350mA	
Air Leakage	1cc/min maxat 4 PSI	

Cat.	Qty 1+	Qty 5+	Qty 10+	
SS0905	\$34.90	\$30.90	\$27.90	

TAMIYA POWER TRANSMISSION COMPONENTS

Single Motor 4 Speed Gearbox / Axle Assembly

This brand-new Tamiya product features an all plastic moulded gearbox and motor casing. Included is a FA-30 type 3 volt electric motor, axle with 2 crank arm and tube of grease.

These gear ratios are user selectable:

12.7:1 114.7:1 38.2:1 344.2:1

Cat.	Qty 1+	Qty 5+	Qty 10+
YG2740	\$26.90	\$23.90	\$21.90

Double Motor Independent 4 Speed Gearbox / Axle Assembly

Basically a double version of the unit above. Each motor can be separately driven and therefore when wheels are connected could rotate on the spot. Each gearbox is independent so it is possible to set different gear ratios for each box. Includes 2 x FA-30 type 3 volt motors.



12.7:1 38.2:1 114.7:1 344.2:1

Cat.	Qty 1+	Qty 5+	Qty 10+
YG2741	\$31.90	\$27.90	\$24.90

2 Shaft Universal Motor / Gearbox Set

This gearbox has a main output shaft exiting either side of the gearbox (to drive wheels, for example) and another single-ended shaft at 90° to the former. The gear set can be configured to give 3 set speeds.

Metal chassis, includes motor

Cat.	Qty 1+	Qty 5+	Qty 10+
YG2742	\$26.90	\$23.90	\$21.90

Pulley Set

This set would typically be used to transfer power in small energy systems. Set includes $2 \times \text{each } 50 \& 25 \text{mm}$ pulleys, $2 \times 11 \text{mm}$ pulleys, bushings, screws, nuts and 1 metre of rubber drive band. This type of system will absorb transmission shock.



ALLEXAND AND					
	Cat.	Qty 1 +	Qty 5+	Qty 10+	
	YG2869	\$16.90	\$14.90	\$13.90	

GERMAN MADE. These precision engineered components are a delight to play with. They offer solutions to small power transmission problems. We make no apologies for the price because well, they are German and they are magnificent quality.

Solid Shaft Couplers (Female)

Machining from solid brass stock - 16mm long, 12mm diameter. Type I will connect 2 shafts on a common axis. Type II will reduce from 6.0 diameter to 4.0 diameter.

• Shaft fixed with grub screws



	Cat.	Qty 1+	Qty 5+	Qty 10+
Type I - 6mm Dia. to 6mm Dia.	YG2600	\$13.90	\$12.90	\$10.90
Type II - 6mm Dia. to 4mm Dia.	YG2602	\$13.90	\$12.90	\$10.90

Aluminium Hub with Set Screws

This device will accept a 6.35mm (1/4") shaft, set screw fixed, and connect to the flat face of a gear, typically the flat side of the larger 48 pitch gears.

 Coupling from the gear to the hub by 4 x set screws provided. Enables a motor to be securely fastened to a driving gear

• Hub 7/8" (22.5mm) dia

	•	,					
			Cat.	Qty 1+	Qty 5+	Qty 10+	
			YG2784	\$11.90	\$10.90	\$9.90	

WHEEL ACCESSORIES

Gear Set & Spur Gear Set

Gear set contains one pinion gear and two different sizes of radio gears. Spur gear set contains three different spur



	Cat.	Qty 1+	Qty 5+	Qty 10+
Gear Set	YG2630	\$14.90	\$13.90	\$11.90
Spur Set	YG2632	\$13.90	\$12.90	\$10.90

Worm Drive Set

This set consists of a worm gear 24mm long x 12mm dia with an 8 turn worm screw. The worm has a 2.8mm axle hole which could probably be carefully drilled out to a larger diameter. The spur gear is 1/4" (6.35 wide) and 1 & 5/8" (41.2mm)

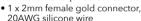


diameter with a number of regular pitch-concentric 2.8mm holes across the face of the gear including one dead centre. It would be drilled out to accommodate a larger shaft. This gear has 40 teeth. Both are moulded in an engineering grade plastic.

Cat.	Qty 1+	Qty 5+	Qty 10+
YG2736	\$12.90	\$11.60	\$10.30

2mm Male & Female Gold Connector Charger Leads

A range of charger, power and test cables with banana plugs, alligator clips and JST connectors, commonly used for toys, robotics, models, remote control hobby. Supplied with one red and one black quick connect 2mm wire set. Ideally used in battery packs or any other applications where good connection is required but can be easily and quickly removed.



• 1 x 2mm male gold connector 20AWG silicone wire



PRE-ASSEMBLED MODULES

Universal Amplifier Modules

1 CHANNEL 3.5 WATT

Ideal as a bench-test amplifier for audio sources, or even as a mono headphone amplifier, this small audio amplifier can be operated from $4.5\,\mathrm{V}$ up to 12 VDC. Use two for stereo.

Specifications	AA0223 - 3.5 WATT
Output Power	3.5 W (max)
Operating Voltage	4.5 to 12 V
Speaker Impedance	4-16 ohms
Input Sensitivity	< 80mV
Frequency Response	40Hz-20kHz
Dimensions	30 x 25 x 15 mm

1 CHANNEL 12 WATT

3.5W

12W

Small audio amplifier module is suitable for a number of purposes and has a range of suitable input voltages and load impedances.

Specifications	AA0225 - 12 WATT	
Operating Voltage	6V - 16V, 800mA (max)	T.
Output Power	12W (max) into 4-16 ohm	is and
Frequency Range	40Hz-20kHz	- 41
Input Sensitivity	80mV	
Dimensions	40 x 40 x 12mm excluding mounting hole	s
	Cat.	Qtv 1+

AA0223

AA0225

\$34 90

\$39.90

\$30.90

\$35.90

Mono Amplifier Module

This tiny module uses the LM386 audio IC. and will deliver 0.5W into 8 ohms from a 9V supply making it ideal for all those basic audio projects. It features variable gain, will happily run from 4-9VDC and its small size allows it to fit into tight spaces.



Specifications	AA0373	1		
Power	4 - 9VDC			
Dimensions	65(L) x 35(W) x 20	(H)mm		
	Cat.	Qty 1+	Qty 2+	Qty 4+
	AA0373	\$9.90	\$8.90	\$7.90

Multi-Voltage Regulated Adaptor Module (Stepdown)

Ideal for when you need a reliable voltage source for a portable CD player or similar battery-powered device. Another use for this adaptor is for a peripheral computer power supply to power external Blu-Ray drive, powered speakers, modems, etc. Plug the input into your PC's internal

power supply cable and get selectable regulated voltage out from 3 to 15VDC*. Output current capability is around 1.5 amps.

• Dimensions: 63(L) x 24(Dia.)mm

Note: *Input voltage MUST be larger than the required output voltage



Cat.	Qty 1+	Qty 3+	Qty o+
AA0372	\$14.90	\$13.90	\$11.90

3 Amp 24V to 12V Reducer

Many trucks and boats use 24V systems. These converters will allow you to run a reasonably sized 12V car-stereo or other devices from a 24V supply. Heatsink (not included)

should be used for superior performance.



Cat.	City i	City 5+	City 0+
AA0266	\$36.90	\$33.20	\$29.50

DC to DC Converter Modules

Converter modules that can step-up or step-down voltages so you can power your devices where a different power source is present. This could include powering 12VDC devices from a 6VDC motorbike battery or to run 12VDC devices from a 24VDC battery found in trucks. They feature protection against short-circuits,

overload and over-heating. See our website for datasheets

2 models to choose from: DC To DC Step Down Module AA0236 DC To DC Step Up Module AA0237





		AA0236	AA	0237
Specifications	AA0236	-	AA0237	
Input Voltage	6-28VDC	6	-14VDC	
Output Voltage	3-15VDC	1	1-26VDC	
Max Output Current	1.5A	2	Α	
Dimensions 60(L) x 45(W) x 20(D)mm		D)mm 7	'0(L) x 60(W) x 2	3(D)mm
	Cat.	Qty 1+	Qty 3+	Qty 6+
Step Down - 1.5A	AA02	36 \$34.90	\$31.90	\$27.90
Step Up - 2A	AA02	37 \$39.90	\$35.90	\$31.90

A118 Freecall order hotline: 0800 452 922 jaycar.co.nz

\$27.90

\$31.90

PRE-ASSEMBLED MODULES

PRE-ASSEMBLED MODULES CONTINUED

Battery Discharge Protector

Protects your car battery from total discharge by switching off appliances before the battery voltage drops to an unrecoverable level. When battery voltage is re-established by recharging, it switches appliances on

automatically. The interrupting voltage is adjustable to 13.3 VDC. Essential low-cost insurance if you have a dual battery setup in a boat, 4WD, RV or for an alternative energy system such as solar or wind power.

			(A)				
Specifications	AA0262						
Max. Switching Current	12V / 20A						
Interrupting Voltage	10.4 - 13.3VDC						
Resetting Voltage	approx. 0.8V (+/-0.3V) above interrupt voltage						
Current Consumption	< 0.7mA when 0	< 0.7 mA when OFF, < 1.6 mA when ON					
Dimensions	87(L) x 60(W) x 32	2(H)mm					
	Cat.	Qty 1+	Qty 3+	Qty 6 +			

AA0262

\$47 90

\$42 90

Speedo Corrector Module for Cars

When you modify your gearbox, diff ratio or change to a large circumference tyre, it may result in an inaccurate speedometer. This module alters the speedometer signal up or down from 0% to 99% of the original signal. With this improved model, the input setup selection can be automatically selected and it also features an LED indicator to show when the input signal is being received.

Power: 12VDC

• Dimensions: 63(L) x 46(W)	x 25(H)mm				
	Cat.	Qty 1 +	Qty 4+	Qty 10+	
	110276	¢50 00	¢52.00	\$44.00	

Frequency Relay Module for Cars

It uses a standard tacho, road speed, or many other pulse outputs to switch a relay. The switch frequency can be set to trip when it is rising or falling, and it features adjustable hysteresis (the difference between trigger on/off frequency). You could configure it to trigger water spray cooling on deceleration, shift light activation, adjustable aerodynamics based on speed, intake manifold switching and much more.

• Dimensions: 72(L) x 65(W) x 43(H)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AA0377	\$52.90	\$46.90	\$41.90

12 Volt Twilight Switch

This handy module senses the ambient light level and will switch external devices on/off at night and in the morning. The unit operates from 12VDC and its changeover contacts are rated at 25VDC @ 3A. Power consumption is only 2mA so it is ideal for automotive or battery-driven applications. Use it for garden lighting or security applications

 Dimensions: 72(L) x 50(W) x 32(H)mm

Cat.	Qty 1+	Qty 10+	Qty 25+
AA0323	\$39.90	\$35.90	\$31.90

12V 3A Timer Module 2 Seconds to 23 Minutes

A versatile and useful timer module that can be set for periods of 2 seconds to 23 minutes. The start and stop functions are controlled by simple switch inputs and the relay output can control a device of up to 25V 3A.

		T T
Specifications	AA0364	POWER CE & SWITCH
Operating Voltage	12 - 15VDC	TIME SWITCH 12V DC
Current Consumption	20mA/80mA (Relay off/on)	Electronic GERMANY # M113A
Relay Point	Single pole, 25VDC, 3A	ADJUST \$ 49 29
Time Adjustment	2 sec to 23 min (+/-30%)	ART - ART
Dimensions	87(L) x 60(W) x 33(H)mm	4-144



12VDC 8A Dimmer/Motor Speed Controller

DC speed controllers are ideal for slowing down pumps and motors or dimming lights, but some use resistance circuits or rheostats which are very inefficient. The pulse width modulation (PWM) used in this controller allows you to vary the output from 0 to 100% while maintaining a very high efficiency. When used on motors this ensures full torque is available at very low speed and the motor won't shudder

POWERTECH

at start-up. Operates on any 12VDC system and capable of controlling devices rated at up to 8 amps.

- · Internal circuitry is fully potted & the control potentiometer is splash proof making this suitable for marine environments and other harsh conditions
- Dimensions:

97(L) x	46(VV) x 4/(H)mm					
		Cat.	Qty 1+	Qty 3+	Qty 6+	
12VDC	8A	MP3209	\$46.90	\$41.90	\$36.90	

Mains Motor & Lamp Controller

This module can be used for various mains rated applications including lamp dimming, soldering iron temperature adjustment and universal commutator motor speed control. Features a 600W continuous and 1200W peak loading capacity with

adjustable potentiometer control. Please note: fluorescent, quartz and energy saving lamps, and motors with starting capacitors should not be used with this module.

Knob included.

Specifications	AA0346
Continuous Power	600W
Maximum Power	1200W
Dimensions	62 x 35 x 21mm

Please note that this kit operates on 240VAC mains voltage and you should be extremely careful when using these voltages. If in doubt, have an electrician check your work before applying power.

Cat.	Qty 1+	Qty 5+	Qty 10+
AA0346	\$58.90	\$52.90	\$46.90

Programmable Interval 12V Timer Module

An easily programmed low cost electronic timer. It operates from 12VDC, with low current drain: <50mA when relay is on, <5mA when relay is off. It is link programmed for either a single ON timing period, or continuous ON/OFF cycling and can be link

programmed for any of 48 different time periods, separately for ON time and OFF time. Selectable periods are 1/2/3/4/5/6/7/8/10/20/30/40/50/6 0/70/80 seconds, minutes and hours. It may be restarted at any time simply by pressing the reset push button.

Specifications	AA0378
Power	12VDC
Dimensions	72(L) x 65(W) x 43(H)mm

miensions	72(L) X 03(W) X 43(11)11				
	Cat.	Qty 1+	Qty 4+		
	AA0378	\$48.90	\$44.00		

LED Tester

With this basic but essential tool it is possible to check the function, brightness, colour and polarity of most kinds of light emitting diodes (LED). The LED to be tested plugs into the front panel, at the current you wish to test it with. Two 10mA positions have been included on this multi-LED tester so that comparisons between two LEDs can

De made simultaneou	siy.		LED .	TECTER
Specifications	LED-	TESTER		
Operating Voltage	9V battery required			K-M-A
Test Currents	1mA, 2.5mA, 5mA, 10	mA, 20mA, 50	mA	
Dimensions	58(L) x 44(W) x 25(D)	mm		
	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA0274	\$16.90	\$15.20	\$13.50

Find Out More In Store Our staff offer friendly and helpful service. We're here to help.



SNAP-ON PROJECTS & KITS:

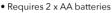
These kits allow children 6 years and older to learn about electronics whilst having fun. All of the brightly coloured parts simply snap together without any need for screws or soldering. The parts can be easily taken apart to be reused for other experiments over and over again.

- Suitable for ages 6+
- No tools or soldering required
- Powered by AA batteries (Sold separately)
- Include coloured instruction manuals



Burglar Alarm Snap-On Electronic Project Kit

Create burglar alarms and more. Simply clip the clearly marked and bright coloured pieces together to learn various circuits designs Some of the projects include anti-theft alarm that fires themed warning sounds when circuit breaks, door/ window alarm using a dry reed switch and even a rain alarm.



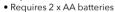


Cat.	Qty 1+	Qty 3+	Qty 6+
KJ8974	\$22.90	\$20.90	\$17.90

14-in-1 Snap-On Electronic Project Kit

Various experiments on circuits, motors, switches and more. Some of the projects include lamps and fans in both series and parallel circuit with variable controls; there is also a flying saucer project that really flies.

• Learn whilst building 14 electronic experiments





Cat.	Qty 1+	Qty 3+	Qty 6+
KJ8976	\$19.90	\$17.90	\$15.90

Car & Boat Snap-On Electronic Project Kit with 50 Experiments

Simple snap together project kit allows you to create a car or a boat that will move! Bright colour pieces and no need to screw, or use adhesives. Great little kit for teaching simple electronic principles to eager minds. Projects include magnet controlled

lamp or fan, air propelled car, and underwater or air propelled boat.

- Learn whilst building over 50 electronic experiments
 • Requires 2 x AA batteries
- Suitable for ages 6+





Cat.	Qty 1+	Qty 3+	Qty 6+
KJ8972	\$46.90	\$41.90	\$36.90

Electronic Project Snap-On Kit with 80 Experiments

Features 80 projects which demonstrate various theories of electronics. A great educational tool for primary age school students that will stimulate their neural pathways as they read and construct an array of devices that use circuits, switches, electric motors, LEDs and more. Some of the projects

include magnets or switch controlled electric fans, switch controlled LEDs, switching multi-directional electric motor, sound effect machine that will output machine gun fire, police car siren and much more.

- · Learn whilst building over 80 electronic experiments
 Requires 2 x AA batteries





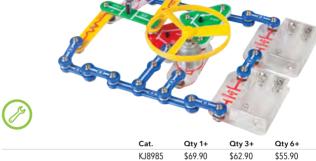
Cat.	Qty 1+	Qty 3+	Qty 6+	
KJ8970	\$34.90	\$30.90	\$27.90	

698-in-1 Snap-On Electronic Project Kit

This massive experimenters kit guides you through 698 different experiments. Yes, that's correct - 698 different experiments! It uses a unique baseboard and snap-together system so you can explore the world of electronic circuits without any tools, soldering, or experience! Build a light sensitive alarm clock, an electronic birthday candle, an electronic organ, and so much more. All using low voltage battery power, so it's safe for ages 8+. Requires 4 x AA batteries, not supplied.

- Snap together no tools required698 different experiments
- Battery: 4 x AA batteries (not included)
- Dimensions: 460(L) x 301(W) x 55(H)mm
 Weight: 860g





ELECTRONIC PROJECTS FOR KIDS

Mini Electric Motor Experiment

This simple motor model demonstrates the basics of how the magnets, armature and commutator work together in an electric motor to cause rotation. The banana plugs allow simple connection of a power source

Removeable and reversible magnets to allow the effects of magnetic field to be seen

- Open structure to see all moving parts
- Magnetic poles marked on magnet
- Removeable armature

Cat.	Qty 1+	Qty 3+	Qty 6+
KJ9032	\$16.90	\$14.90	\$13.90

12-in-1 Electrical Experiment Kit

12 different experiments to construct that demonstrate various electronic principles. Learn about static electricity, electric motors, resistors, diodes, lights, solar power and more. Kit includes a manual with excellent information describing the theory and history associated with each experiment. Suitable for ages 8+

- · Assembly time for each experiment: Approximately 10 mins
- Requires 2 x AA batteries
- Base dimensions: 120(L) x 99(W) x 23(H)mm

ACTIVITIES:

- Static Electricity
- Conductors and insulators
- Make a fanResistor
- Diode
- Make a lightMake a Morse code machine
- · Light control alarm
- Make a bell
- Make an electromagnet
- Make a motor
- Solar power cell





and let them choose!

	Cat.	Qty 1+	Qty 3+	Qty 6+
12-in-1	KJ8919	\$34.90	\$30.90	\$27.90

Not Sure What To Buy? Give a Jaycar Gift Card







ELECTRONICS & SCIENCE PROJECT KITS

ELECTRONICS CIRCUIT PROJECTS

MakeBlock Neuron Inventor Kit

Makeblock have assembled the essential package to get you started. The Neuron Inventors Kit contains 8 programmable electronic building blocks including power, sound, light and sensors. The building blocks are connected via snap magnetic Pogo Pins making them durable and effortless to use. Combine this with the intuitive graphical programming turn your ideas into real, working gadgets.

Make a new invention in just 5 minutes. The Inventors Kit includes 10+ invention ideas and online video guides. Follow, then lead with your own creative ideas. The invention ideas have case materials to help build out the invention, so the gadget is fun and looks great. Some of the invention ideas for you to build are below. See website for full parts list.

- Telegraph
- DJ Machine
- Peace MakerLight Pallet
- Electric Guitar • Noisy Robot Biting Dinosaur
- Happy Rabbit
 - Tail Wagging Cat Robot





Squishy Circuits Standard Kit

Makeblock Neuron Inventor Kit

Squishy Circuits uses conductive and insulating play dough to teach the basics of electrical circuits, a perfect blend of play and learning! The play dough kits, projects, and recipes teach problem solving and engineering concepts and inspire creativity and independent thinking.

K 19190

\$119.00

\$44.90

The standard kit includes everything you need to get started with some more advanced Squishy Circuits projects that use LEDs, buzzers, and insulating dough!





Standard Kit	KJ9350
Squishy Circuits Deluxe	Kit

Squishy Circuits uses conductive and insulating play dough to teach the basics of electrical circuits, a perfect blend of play and learning! The play dough kits, projects, and recipes teach problem solving and engineering concepts and inspire creativity and independent thinking.

The Deluxe Squishy Circuits kit comes with pre-made doughs so you can start circuit building right away! This kit also includes a deluxe battery holder which has a knob that allows your lights to blink and buzzers to beep at different speeds. Check our website for full list of contents



	Cat.	Qty 1+	Qty 3+
Deluxe Kit	KJ9352	\$149.00	\$133.90

CONSTRUCTION KITS

Air Power Engine Car Kit

A green powered car! No batteries or motors required and it is not even subject to weather conditions like its solar powered counterparts. This subject to weather conductors like its solar powered counterparts. This futuristic car kit operates entirely using air, and it travels up to 80m on one single tank. This kit balances the fun and learning perfectly. A built-in hand pump with pressure meter is built in the car for easy operation and also as an indicator in measuring how volume of air is collected into the tank. Build this fun and educational kit and discover and learn about air pressure, pumps, valves, transfer of energy and green power, all that with the thrill of a speedy car!





Cat.	Qty 1+	Qty 3+	Qty 6+
KJ8967	\$34.90	\$30.90	\$27.90

Salt Water Fuel Cell Engine Car Kit

An entertaining educational kit demonstrating the concept of a salt powered automotive engine. It gives the next generation a look at alternative means of propelling cars of the future. It works with a combination of salt water and magnesium plates. When salt water is added it dissolves the magnesium to form hydrogen which is attracted to the cathode creating a flow of electrons. A detailed step by step assembly manual for connecting the myriad of components is included and the car engine can be configured as a V8 or flat engine. The cylinders also move up and down as the car moves forward. The finished vehicle is 4 wheel drive and the body will twist as it navigates its way over small pebbles and bumps. Watch a demonstration video on our website. You may require the use of a side



120(L) x 100(W) x 91(H)mm





Frilled Lizard Robot Kit with IR Sensor

A super smart frilled lizard with artificial intelligence. It has an infrared sensor that is programmed to 'escape' or 'follow-me'. Once the infrared sensor is activated in the 'escape' mode the robot will automatically act shocked by spreading its frill, dropping its jaw, illuminates its bicolour LED eyes and will scamper away from you until it reaches a safe place. If the infrared sensor is switched to the 'follow-me' mode using the 2 way function switch, then the robot will assess danger by bluffing the attacker (unfurling and shaking its frill). When the robot does not sense danger it will proceed to follow you like a pet lizard. Suitable for ages 10+.

• Interactive artificial intelligence (AI)

- Two funway modesInfrared sensor
- LED illuminated eyes





CONSTRUCTION KITS

Crossbow Construction Kit

This toy crossbow has a firing lever that releases the lock and fires a dart when pressed! Adjust the distance knob to control how far back the arms are pulled before release and height knob to control how high up the Crossbow™ is aimed before firing. Features two alternate builds for more robotic fun!

• Suitable for ages 14+ Caution: Do not aim at eyes or face. To Avoid Injury: Use only projectiles designed for this product. Do not modify projectiles or projectile launcher.



Catapult Construction Kit

Inspired by ancient Greek and Roman designs, this modern Catapult has a ratcheting winch that can control the distance projectiles are thrown. Crank the winch to its maximum tension, and hurl balls over 3 metres! The VEX Robotics Catapult feature two alternate builds for more robotic fun!

- Suitable for ages 14+
- 3 ammo balls included
- Dimensions: 255(H)x230(L)x125(W)mm



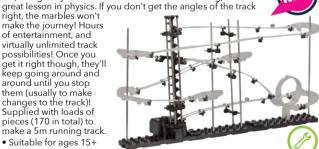
	Cat.	Qty 1+	Qty 3+	Qty 6+
115 Piece	KJ8969	\$34.90	\$30.90	\$27.90

Mini Space Rail Coaster Kit

Build your own marble rollercoaster, in whatever shape you like! The spiral "elevator"; lifts the marbles up to the top of the rail, and gravity takes care of the rest. It's entertaining, and a

make the journey! Hours of entertainment, and virtually unlimited track possibilities! Once you get it right though, they'll keep going around and around until you stop them (usually to make changes to the track)! Supplied with loads of pieces (170 in total) to make a 5m running track.



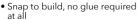


04			
equired (not in	cluded)		
Cat.	Qty 1+	Qty 3+	Qty 6+
KJ9004	\$34.90	\$30.90	\$27.90
	Cat.		Cat. Qty 1+ Qty 3+

Planetarium Educational Kit

What better way to learn about our own Solar System than leaving your own marks on each of the planets? Assemble your

own planetarium model, paint it and add highlights to create a glow effect. Watch the 30cm model glow in the dark - it's out of this world! Featuring the Sun, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (our condolences to Pluto)



Dimensions: 220(L) x 170(H) x 60(D)mm

• Suitable for ages 3+

				٠.
Cat.	Qty 1+	Qty 3+	Qty 6+	
KJ8994	\$11.90	\$10.70	\$9.50	

ROBOTIC CONSTRUCTION KITS



This arm is a must for budding robot enthusiasts and operates just like the real thing. It is capable of 5 separate movements and can easily perform complex tasks. Individual control is available for opening and closing the illuminated gripper plus control of wrist, shoulder, elbow and base rotation. The arm is supplied as a kit of parts and makes an excellent project for anyone interested in robotic construction basic electrical connections.

• Suitable for ages 12+

Specifications	KJ8916
Max Lift Capacity	100g
Gripper Opening	43mm
Maximum Reach	320mm
Wrist Movement	120°
Elbow Movement	300°
Shoulder Movement	180°
Base Rotation	270°
Requires	4 x D cells
Base Dimensions	225(L) x 160(W) x 40(H)mm

USB INTERFACE KIT FOR KJ8916

Add computer control via USB to your Robotic Arm. The kit includes everything you need - interface cable, pre-built PCB, enclosure and software for controlling function. You can use a keyboard or mouse to have real-time control of the robotic arm, or you can program, edit and load individual functions and movements, just like a real industrial robot. The commands are saved just like a normal computer file to be loaded and used later.







	Cat.	Qty 1+	Qty 3+	Qty 6+	
Robot Arm with Controller	KJ8916	\$89.90	\$80.90	\$71.90	
USB Interface Kit	KJ8917	\$59.90	\$53.90	\$47.90	

R/C Robot Construction Kit

This impressive remote controlled robot construction kit is a thrill to build, and even more fun to control. It is supplied with 408 pieces, including two motors, LED lights, wireless receiver, and a battery box. A 40-page full colour manual is included to guide you step-by-step through the build, which takes about 1 to 2 hours to complete. A 2.4GHz full function remote control is supplied to control the direction from up to 10m away. Drive forward,

backward, left, right or spin 360° on the spot, and at the touch of a button, you can also illuminate the LEDs in the eyes, lift the eyes up and down, turn the head swing the arms, and rotate the hands. You are not limited to just the one robot design either. With a little imagination, you can also use the parts (and parts from other popular plastic block sets) to make your own custom robot. Batteries are not included. 3 x AAA are required for the remote, and 6 x AA for the robot, which provides up to an hour of continuous playtime. Recommended for ages 6+ Dimensions: 215(H) x 150(W) x 80(D)mm (Constructed)



STEM @			dis		
	Cat.	Qty 1+	Qty 3+	Qty 6+	

\$71.90

\$63.90

A122 ⊶ Freecall order hotline: 0800 452 922 jaycar.co.nz

ROBOT CONSTRUCTION KITS

ROBOTIC CONSTRUCTION KITS CONTINUED

3-in-1 All Terrain Tracked Robot





There are a lot of parts to assemble in this kit, including the hard-wire remote control. You do, however end up with a fantastic piece of robotic gear. It is primarily a terrestrial 6 track (i.e. 3 separate tractor-crawlers each side) unit. The crawlers can be reconfigured to operate as grippers, or even as a forklift type mechanism. You will need lots of time to put this thing together, but it will be a pleasure as the 50 page instruction manual is superb with dozens of good old-fashioned line drawings, which are still the best for clarity. There is very little electronics (indeed none really) but a tremendous amount of mechanical assembly. Electric motors are included.

This kit could form the basis of a sophisticated robotic platform with the addition of feedback systems, much of which is in the Jaycar catalogue.

- It would make a fabulous gift for a very bright 13+ year old
- Batteries AA x 4 are extra
- Carton dimensions 40(W) x 30(D) x 90(L)mm



STEM



	Cat.	Qty 1+	Qty 3+	Qty 6+
3-in-1 All Terrain	KJ8918	\$84.90	\$75.90	\$67.90

2.4GHz R/C Robotic Arm Kit

Learn about robotics with this fun to build remote controlled robot arm kit. Once assembled, have fun driving it around the house to pick up and deliver objects to different rooms. The tank-like tracks help it drive across different surfaces and

obstacles, and the articulating arm with claw rotates and extends to pick up even the smallest of objects. The remote control has a range up to 30m, and requires 3 x AAA batteries (sold separately). The robot features a rechargeable battery that provides up to 1 hour

of playtime. To charge, simply connect it to an available USB power source using the supplied USB charging cable. 81 piece kit with build instructions. Ages 8+.

- Forward, Reverse, Left, Right, Spin, Arm Up, Arm Down, Clamp Pickup
- Includes

Dimensions

- Remote Control,
- 1 x USB Charger



	Cat.	Qty 1+	Qty 3+	Qty 6+	
81 Piece	KJ8988	\$159.00	\$142.90	\$126.90	

420(H) x 260(L) x 195(W)mm

Tobbie Hexapod Robot Kit

Tobbie is the new 6-legged robot that you can build. He can walk and spin in any direction, and will beep and flash his eyes while moving around.

- Follow me mode
- Explore mode
- Six legs for stable walking





Tobbie the Robot II Kit to suit micro:bit

The excellent features of micro:bit has been comprehensively interfaced into this robot, making Tobbie II your coolest and cleverest friend. Using MakeCode or Python editors, coding and programming is made easy and turns Tobbie II into a fantastic learning option for your STEM curriculum.

• Batteries: Requires 4 x AAA batteries

 Dimensions: 176(H) x 135(W) x 135(D)mm (Assembled)

Note: micro:bit not included (use XC4324)

> p.A112 micro:bit V2





Mini Smart Car Robot Kit to suit micro:bit

3.6V Li-ion rechargeable battery also required (use SB2298)

A fun to build robot that uses a micro:bit microcontroller board (sold separately) that kids can code or control using their Smartphone via Bluetooth. The kit is easy to assemble and no soldering is required. The included infrared and ultrasonic modules connect with the micro:bit, which enables the robot to follow a line, avoid or follow obstacles, and more. Other features include an onboard buzzer to produce sounds, an 18 RGB LED ring for amazing colour effects, and a photocell to detect light intensity. Two large RGB lights on the front are used to indicate the robot's direction as it travels. Once kids are competent using the micro:bit, they can create their own code to get the robot to use the micro:bit's accelerometer, compass, and 5x5 LED matrix. A 3.6V Li-ion rechargeable battery is required for power (sold separately)

Note: micro:bit not included (use XC4324).

Included: • 1 x Smart Robot Shield Base

- 1 x Ultrasonic Sensor Module
- 1 x Round LED Module
- 2 x Wheels
- 1 x Screwdriver 1 x USB Cable
- 3 x 100mm Jumper Wires
- 4 x 150mm Jumper Wires
- 1 x Omnidirectional Wheel
- 4 x Copper Pillars
 3 x Acrylic Mount Boards
- Screws and Nuts

Dimensions: 120(D)x115(H)x115(W)mm





Cat Qty 1+ Qty 3+ Suits micro:bit \$84.90 \$75.90

ROBOT KITS

TRIBO 3-in-1 Coding Kit with 182 Pieces

A great way to learn the fundamentals of coding and robotics. This 182 piece kit can be constructed into three different robots. The Doodler holds a marker pen to draw patterns, the Shooter fires three soft-tipped bullets at targets around your room, and the Sweeper collects anything in its path as it moves. To program, simply enter the desired movements into the integrated keypad and press run. No computer, Smartphone or Tablet needed.

- 3 different models can be built
- Self-coding
- Entry-level
- 4 x AAA batteries requried
- Suitable for ages 8+





NEV

Cat.	Qty 1+	Qty 3+	Qty 6+
KR9264	\$58.90	\$52.90	\$46.90

Mazzy Xtreme Bots Kit with Bluetooth® Technology

Mazzy by Xtrem Bots is a robot designed for young learners to start computer programming in an easy, fun and creative way. With just a screwdriver and a step-by-step assembly guide, kids can enjoy the amazing experience of building a robot. Mazzy will follow orders programmed by the user

through the control panel located on the robot or through the app which can easily be downloaded. MAZZY consists of modular parts, which allow's the construction of 2 different robot models: an Android or a Rover off-road vehicle.

• Suitable for ages 8+



Batteries	4 x AA re	equired (not i	ncluded)		-
Dimensions	180(L) x	160(W) x 80	(D)mm		_
		Cat.	Qty 1+	Qty 3+	
		KR9240	\$94.90	\$84.90	

PROGRAMMABLE ROBOTS

Programmable Apitor SuperBot Robot Kit

The SuperBot is a DIY 18-in-1 Programmable STEM Educational Robot Kit that allows children to express their innovative ideas by using the blocks and sensors not only to build and play, but also allows children to do coding with their creations by graphical programming language used by tens of millions. The kit include's 400+ pieces of blocks that kids can build more than 18 cool multi-functional models and explore more with their creativity. Learn to use Graphical Programming to code your robot to play, such as moving, avoiding obstacles, following lines, creating colour effects, and more.

Suitable for ages 8+. Requires 3 x



Cat

KJ9354

Qty 1+

\$149.00

Qty 3+

\$133.90

Meet Edison Robot Kit

A compact, sturdy robot that can be programmed in 3 different ways, making it suitable for all ages Edison is your new robot buddy who will teach you about electronics, programing and robotics in a fun and engaging way. He's equipped with all the sensors, outputs and motors needed to introduce you to the amazing world of robotics. Once you've learned all about

Edison's abilities, sensors and controls you can move on to programming him.

FOR BEGINNERS:

Edison has a barcode scanner to activate one of six inbuilt programs, including line following, clap controlled driving and obstacle avoidance.

FOR INTERMEDIATE:

EdBlocks is a drag-and-drop block based programming language and can run in a browser. EdWare is the next level up from EdBlocks, with the simplicity of drag-and-drop & more features.

FOR ADVANCED:

EdPy is the hardcore programming option for those who want to take their Edison to the limit. Requires 4xAAA batteries (not included).



	Cat.	Qty 1+	Qty 3+	Qty 6+
MeetEdison Robot Kit	KR9210	\$119.00	\$106.90	\$94.90

Meet Edison Robot Spare Parts Kit

This collection of spare parts for the MeetEdison robot has all the removable parts, so there's no need to panic if you lose a bit! It also includes a sachet of silicon grease to keep your robot rolling smoothly. See website for full parts list.



Cat.	Qty 1+	Qty 3+	Qty 6+
KR9211	\$33.90	\$29.90	\$26.90

EdCreate - Edison Robot Creator's Kit

The EdCreate Edison robot creator's kit is a 5-in-1 expansion pack construction system. Designed to work with the Edison robot, EdCreate enriches students' STEM education experience through interactive engineering and programming projects.

The EdCreate system can be used with Edison robots to complete five EdBuild projects:



	Cat.	Qty 1+	
EdCreate - Edison Robot Creator's Kit	KR9212	\$58.90	

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\$118.90

RADIO & CLOCK MAKING

RADIO KITS

Crystal Radio

A radio without batteries!

Enjoy AM broadcasting without using battery or other power sources. Ideal for entry-level students or hobbyist with little electronics experience.

KwiK Kit

• Includes circuit explanation

- Kit supplied with screen printed PCB (81x53mm), germanium diode, pre-wound coil, earphone and all components
- PCB: 80 x 50mm

Note: Soldering is required.



	Cat.	Qty 1+	Qty 5+
Kit	KV3540	\$25.90	\$22.90

Cardboard Radio Construction Kit

Build a working cardboard radio with just a screwdriver. Easy to assemble and sounds great, no previous electronics knowledge needed. Included radio board is based around a modern digital tuning IC and is great for building into other projects.

• AM/FM Radio with AUX input

- Volume and tuning controlsNo soldering needed, all fasteners included
- Extendable antenna
- 3 x AA batteries required (not included)
- Suitable for ages 8+



	Cat.	Qty 1+	Qty 3+	Qty 6+
Cardboard Radio Construction Kit	KJ9021	\$28.90	\$25.90	\$22.90

Quartz Clock Movement MAKE A CUSTOM CLOCK OR REPAIR AN OLD ONE This is a standard hour/minute/sweep second

movement found in almost all electric clocks worldwide. Very reliable. Standard nut bushing mount. We have sold 10's of thousands of these and, as far as we can tell, not one has come back.

- Very compact 56 x 56 x 15mm
 Self starting one second stepping motor
 Uses 1 x AA battery that lasts 1 year
- ±15 second/month accuracy
- Supplied with three sets of handsShaft length 19mm, dia. 7.5mm
- Includes sweep second hand





Cat.	Qty 1+	Qty 3+	Qty 6 +	
XC0100	\$19.90	\$17.90	\$15.90	

Zodiac Wall Clock Kit

This intricately detailed wooden zodiac clock is a joy to assemble and will make a great art piece in your home. In the centre of the clock is a standard Quartz clock movement with a sweep second hand. Surrounding this is an adjustable dial plate that shows the twelve constellations, and three other dials that let you manually set the date, day of the week, and month. The 168 wooden pieces are dip-dyed in different colours, assemble just like a wooden jigsaw puzzle, and are held in place using the supplied glue, nuts and bolts. 1 x AA battery is required (not

• Silent running Quartz clock movement

• 168 wooden pieces

· Adjustable constellation, date, day & month

• 1 x AA battery required (not included)

• Suitable for ages 14+

• Dimensions: 335(L) x 295(H) x 55(W)mm





Make Your Own Clock Kit

This educational clock is designed to stimulate your child's curiosity about the concept of time. The brightly coloured parts are easy to assemble and most children will require little or no parental assistance.

- Includes a wind-up pendulum based mechanism
- No batteries required!
- Suitable for ages 6+
- Dimensions: 195(Dia)mm





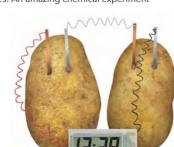
\$19.90 KJ8996 \$17.90

Potato Clock

You can generate enough electricity to run a digital clock by plugging electrodes into common potatoes! An amazing chemical experiment

which also works with tomatoes, lemons, apples - even soft drink or beer! All parts (except fruit/ veg) supplied including:

- Highly accurate digital clock module
- Metal electrodes, wire
- Instructions and fluid beakers • Perfectly safe for children and
- highly educational. (Do not eat fruit/veg after using as batteries)
- Clock dimensions: 65(W) x 30(H) x 12(D)mm
- Suitable for ages: 10+





Cat.	Qty 1+	Qty 3+	Qty 6+
KJ8937	\$15.90	\$14.30	\$12.70



	Cat.	Qty 1+	Qty 5+
168 Piece	KJ9050	\$84.90	\$75.90

Time Engine Calendar Kit

This beautifully designed wooden time engine calendar is fun to assemble and will make a magnificent art piece on your desk or table. In the centre of the assembly are two date dials to manually set the date each morning, and a turntable on either side for setting the day of the week and month. A classic metal pocket watch with roman numeral print is also built into one side. The 250 laser cut wooden pieces are dip-dyed in different colours and assemble similar to a wooden jigsaw puzzle. Supplied with sandpaper and a transparent acrylic frame. 1 x AA battery is required (not included). Recommended for ages

- Classic metal pocket watch
- 250 wooden pieces
- Adjustable date, day and month
- 1 x AA battery required (not included)
- Suitable for ages 14+
- Dimensions

215(L) x 145(W) x 146(D)mm





	Cat.	Qty 1+	Qty 5+
250 Piece	KJ9051	\$69.90	\$62.90

TELESCOPE & MICROSCOPES

Junior Telescope Kit

This astronomical telescope is designed to give children a closeup view of the moon and stars. The angle adjustment levers and focus knob are designed to be easy to operate by small hands, and the finderscope on the side helps find objects in the sky much quicker. The multi-coated lens provides a high refractive index to help make images clearer, brighter and sharper without dark edges, and

and sharper without dark edges, the interchangeable 20X, 30X and 40X Barlow lenses help get the best view. A universal Smartphone bracket is also supplied so you can take and share photos of what is seen through the telescope. Fold-up tripod included. Suitable for ages 6+.



Specifications	KJ7337					
Dimensions	490(H) x 445(L) x 31(W)mm (set up)					
	Cat.	Qty 1+	Qty 3+	Qty 6+		
Telescope	KJ9357	\$34.90	\$30.90	\$27.90		

Junior Microscope Kit

C-- - -!£! - - +! - - -

This biological microscope is designed to enable curious children to explore the micro world around them. The adjustment knobs make it easy for small hands to operate, and a 360° rotating eyepiece holder makes it more convenient for kids to share. The switchable 10X and 20X eyepieces, combined with the 4X, 10X and 40X objective lenses provide an impressive combined magnification up to 1200X, and 5 different apertures and 4 colour filters help improve the optics. Integrated upper and lower white LEDs illuminate 3D objects or specimins for a clearer view (2 x AA batteries required - not included). Supplied with a wide range of child-friendly accessories, including a pre-prepared slide so the microscope can be put to use straight away. Suitable for ages 64.

Specifications	KJ9358		2		
Batteries	2 x AA (sold separate	ely)			
Eyepieces	10X, 20X				
Objective Lenses	4X, 10X, 40X				
Dimensions	218(H) x 168(D) x 105(W)mm				
	Cat.	Qty 1+	Qty 3+	Qty 6+	
Microscope	KJ9358	\$34.90	\$30.90	\$27.90	

USB Portable Digital Microscope with 600X Zoom and LED Endoscope

A digital microscope suitable for many applications. Includes 6 adjustable LEDs to give the right level of illumination. USB connector attaches to your computer to give a 640 x 480 resolution.

Adjustable magnification up to 600X

Includes tripod



1080P Digital Microscope with 600X Zoom and 4.3" HD Screen

Digital microscope with built in 4.3" OLED display. Collect items from around the house and take a closer look to satisfy your curiosity! The microscope provides its own illumination via LEDs to see the objects even clearer. Great for hobbyists and curious young minds.

Adjustable Magnification up to 600X

Rechargeable Lithium Ion Battery



Specifications	QC3193				<u>I</u>
Magnification	600X				
Focus Range	60mm				
Camera	3.6MP CCD				
Resolution	1080p				
Screen Size	4.3"				
Battery	Built-in Li-io	on Rechargea	able		
Microscope Dimensions	120(W) x 15	50(H) x 65(D)mm		
Weight	300g				
		Cat.	Qty 1+	Qty 3+	Qty 6+
1080p Resolution - Recharges	ble	QC3193	\$149.00	\$133.90	\$118.90

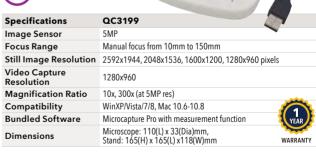
5MP USB 2.0 Digital Microscope with Professional Stand

A USB microscope with a simple but incredibly useful stand that allows you to make fine adjustments to the vertical height of the microscope and swivel the scope arm around a 360 degree range. This permits a greater level of viewing accuracy and stability. The sharpness of texture on magnified objects is incredible to look at you will spend hours searching for things to magnify (check out a full

searching for things to magnify (check out a ful resolution 5MP capture on our website). It comes with a great piece of software for capturing 5MP (2592x1944) res JPGs, BMPs, TIFs or PNGs and 1280x960 pixel AVI files.

Excellent for educational purposes or a myriad of practical applications such as technicians, jewellers, laboratory work, and much more.





	Cat.	Qty 1+	Qty 4+	Qty 10+
10x, 300x	QC3199	\$239.00	\$209.00	\$189.00



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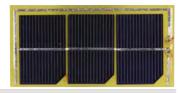
GREEN POWER EDUCATION KITS

LEARN ABOUT GREEN POWER

Hobby Solar Module

Ideal for powering solar projects, hobbies, model solar cars & educational applications.

• 3 cells per module, rated at 1.5V



Specifications	ZM9012				
Open Circuit Voltage	1.5V	1.5V			
Short Circuit Current	500mA				
Dimensions, Weight	148(L) x 74(W)mm, 33g				
	Cat.	Qty 1+	Qty 2+	Qty 4+	
	ZM9012	\$11.90	\$11.30	\$10.70	

Solar Educational Kit

Experiment with solar energy - the energy source of the future. Our solar educational kit lets you build your own solar models. Suitable for ages 8+

The kit comes complete with:

- Solar cell module
- Solar cent module
 Solar energy booklet explaining the why & hows of solar energy
 Small DC motor
 Screws and nuts

- Wire with motor clips
- Colour spinner discs
- Paper aeroplane and bird models
- Plastic turntables with 4 sizes, 5/8", 1", 1.5" and 2"
- Plastic fan spinner







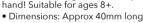
\$21.50

\$19.00

\$23.90

Solar Powered Grasshopper Kit

Are your children fascinated with insects? This mini solar powered grasshopper is easy to assemble and will keep them occupied for hours. Runs from sunlight or by a 50W halogen bulb. Small enough to fit in the palm of their



Dimensions: Approx 40mm for	ig)	
	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT3751	\$15.90	\$14.30	\$12.70

KJ6690

6-in-1 Solar Educational Robot Kit

A hands on experience in the world of solar power. This kit includes all the parts needed to construct up to six different projects. Choose between a robot, helicopter, plane, windmill, water skies or even a three wheeler!

Don't even worry about screws, everything snaps together for easy assembly and its all solar powered so no batteries are required. For the best results, use it in direct sunlight. For cloudy days use a 50W halogen light. Suitable for ages 10+.



Specifications	KJ8936		T	
Dimensions (Approx)				
Windmill	185 x 185 x 190mm			
Helicopter	234mm			
Water Skier	140 x 75 x 95mm		5	
Three Wheeler	65 x 50 x 60mm			
Robot	50 x 85 x 45mm			
Plane	185 x 185 x 130mm			
	Cat.	Qty 1+	Qty 3+	Qty

\$15.90

\$14.30

\$12.70

Solar Bug Kit

Cute as a button and easy to build, our bug loves to play in the sun. Watch the gears turn to make the legs work. Great for learning about construction, solar, mechanics

- Teaches about renewable energy
- Easy to snap together construction
- Sidecutters needed to trim parts
- Play in the sun to learn about solar power



	Cat.	Qty 1+	Qty 3+	Qty 6+
Solar Bug Kit	KJ9027	\$22.90	\$20.90	\$17.90

6-in-1 Solar Robot

This fantastic DIY kit for the kids is super fun and captures the imagination of the young ones with everyday household material. Build wacky robots out of a coke can, a water bottle or wasted CDs, and even better, all of them can be powered by the sunlight using mini solar panels. A great toy to play, learn, and encourage awareness of the environment. Suitable for ages 10+. No batteries required.

6 Robots to build:

- Drummer Robot
- Street Roller • Bottle Yacht
- Flying BirdWalking Robot
- CD Racer



Note: Can not included

	Cat.	Qty 1+	Qty 3+	Qty 6+
6-in-1	KJ8939	\$22.90	\$20.90	\$17.90

6-in-1 Solar Educational Kit

A brilliant kit for any junior eco-scientist. You can build any one of six different projects from the parts in the kit, then make them work by solar power. No tools, soldering or glue required. All the parts snap together with spring terminals for the wiring. The instructions are excellent with extremely clear and concise illustrations detailing every step. The finished projects are solar powered, but can also be powered by the light from a

household 50W halogen light. Suitable for ages 10+.

Projects:

- Windmill Car Plane Dog
- Airboat
 - Revolving Plane





THOUSANDS SOLD!

	Cat.	City IT	Qty 3+	Qty 0+
6-in-1	KJ8926	\$22.90	\$20.90	\$17.90

8-in-1 Solar Educational Robot Kit

A fun and inspiring way to teach kids about solar power and robotics. There are eight unique robots to build that drive, walk or roll thanks to the solar-powered motor and gears. No batteries are required, simply operate under direct sunlight. 194 Pieces. Supplied with a detailed instruction manual. Recommended for ages 8+.

8 Designs:

- Somersaulting Armadillo
- 6-legged Crawling Bug
- Vibrating Tank
- Biped Drummer
- Rolling Robot • Racing Car
- Stomping Dino
- Spinning Wheel-Bot



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	Cat.	Qty 1+	Qty 3+	Qty 6+	
8-in-1	KJ9356	\$29.90	\$26.90	\$23.90	

LEARN ABOUT GREEN POWER CONTINUED

Solar Rover Kit

At night, Solar Rover rests, but during the day, its out exploring, with its radar dish scanning the landscape as it prowls on its six wheels. Learn about construction, solar, gears and be inspired to reach for the stars! More advanced than KJ9027 Solar Bug, great for kids interested in space.

- Easy snap together construction
- · Sidecutters needed to trim parts
- Play in the sun to learn about solar
- Transparent windows to view moving



	Cat.	Qty 1+	Qty 3+	Qty 6+
Solar Rover Kit	KJ9026	\$28.90	\$25.90	\$22.90

"T4" Transforming Solar Powered Robot Kit

The basis of this kit is two moulded 'frames' of component parts reminiscent of a plastic model aeroplane kit - about 50 parts! It also has a small (40 x 25mm) solar panel, a tiny electric motor, gears, pinions, etc. It also includes decals. It can 'transform' between a T-Rex or Rhino beetle with moving legs and jaw, Robot with walking legs and moving wheels, and a futuristic miners drilling machine with moving drilling bit and wheels. You will probably need small diagonal pliers to cut out and de-flash all the plastic parts from the frame. Suitable for ages 8+.





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	Cat.	Qty 1+	Qty 3+	Qty 6+	
4-in-1	KJ8965	\$31.90	\$27.90	\$24.90	

Solar Powered 14-in-1 Robot Kit

This kit has so many included parts we don't have the time to count them, certainly at least 100 or more. Notable are a solar panel, solar powered electric motor boat hull components, gears etc. This kit can be transformed into 14 different functional robots, some of which admittedly are whimsical, but the kit itself is a fantastic learning experience: Mechanical, educational, scientific & solar physics skills are exercised. Best of all the kit comes with an assembly manual that is LEGO* like in the clarity of description. The manual itself runs to over 80 pages. This kit represents sensational

value and is perfect for bright kids 10+ years. (A side cutter is really required to clip all of the parts out of the moulding frames - try TH1897). Suitable for ages 10+.

• Dimensions (Boat - bot): 245(L) x 170(W) x 100(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
14-in-1	KJ8966	\$46.90	\$41.90	\$36.90

Crooke's Radiometer

A beautiful desk gadget or serious educational toy, the Crooke's Radiometer demonstrates that light has energy, and will turn its vanes even when illuminated by a torch. Despite many people thinking that the motion is caused by the impact of photons on the vanes, the Radiometer in fact operates as a heat engine, driven by the different temperatures of the black and silver vanes.

- One piece glass body with metal vanes
- Use as simple desk ornament
- · Great for physics demonstrations

Cat.	Qty 1+	Qty 3+	Qty 6+
GG2108	\$46.90	\$41.90	\$36.90

HYDRAULIC ROBOTIC CONSTRUCTION KITS

12-in-1 Solar Hydraulic Robot Kit

Here's a kit that's easy to build, and a great way to learn about solar power and hydraulics. There's 12 different models to build, including a crocodile, T-Rex, elephant, monkey,

ostrich, scorpion, excavator and forklift.

- 12 different projects to build and rebuild
- Solar electric and
- hydraulic power Each model has many different animation features, making for fascinating play time



B

	Cat.	Qty 1+	Qty 3+	Qty 6+
12-in-1	KJ9030	\$45.90	\$40.90	\$35.90

Hydraulic Cyborg Hand Kit

A fun to build hydraulic cyborg hand that simulates the movements of your hand and fingers. The three fingers and opposable thumb have adjustable joints, which enables you to pick up large objects like a bottle of water to smaller items like a pen. It can fit left or right hands of different sizes, and uses hydraulic mechanical power so no batteries are needed. This makes a great gift and can teach kids how hydraulic systems work. Step-by-step build instructions



	Cat.	Qty 1+	Qty 3+	Qty 6+	
229 Pieces	KR9266	\$46.90	\$41.90	\$36.90	

Hydraulic Robot Arm Kit

This Robot arm has no motors and does not require any batteries as it relies on hydraulics to do all the work! Use it to command 6 axes of varied movement. Suitable for ages 10+



Specifications	KJU	,,,,			
Wrist Mobility	98°				
Elbow Range	44°				
Base Rotation	270°				
Shoulder Motion	45°				
Base Diameter	100r	nm			
		Cat.	Qty 1+	Qty 3+	Qty 6+
		K 18997	\$74 90	\$67.40	\$59 90

K 12007

A128 ← Freecall order hotline: 0800 452 922 iavcar.co.nz

SHORT CIRCUITS

SHORT CIRCUITS VOLUME 1 - SECOND EDITION:

With Short Circuits Volume 1, we give the option of buying the book on its own, or together with the accompanying kit that contains the components for each of the 20-odd projects described in the book. Some of the exciting projects include a Police Siren, Electronic Organ, Sound Effects Unit, Light Chaser and a Solar Powered Radio (an inexpensive solar panel is optional and available separately). Of course, many more projects are included! Remember, no prior knowledge of electronics is needed and the projects are totally safe. This volume will teach

Short Circuits - Volume 1 BOOK - SECOND EDITION (BJ8502)

Book only

- Soft cover 96 pages
- 205 x 275mm

PROJECT KIT (KJ8504)

The complete kit of parts available separately. This includes plastic baseboard, spring connectors and all components needed to complete every project in the book. No instructions are supplied with this kit as they come in the book which is available separately.

BOOK & PROJECT KIT (KJ8502)

Apart from the book, we supply the baseboard, plenty of spring terminals and ALL the components required to build every project in the book, INCLUDING the bonus projects!

- Additional hookup wire can be purchased (WH3025)
- 6VDC (4 X AA) batteries required





p.B82

	Cat.	Qty 1+	Qty 3+	
Volume 1 Book Only	BJ8502	\$12.90	\$11.90	
Project Kit Only	KJ8504	\$45.90	\$40.90	
Volume 1 Book & Project Kit	KJ8502	\$53.90		

SHORT CIRCUITS VOLUME 2: THIRD EDITION:

Once constructors have mastered the art of assembling a circuit with springs they will want to tackle projects that are more complex. The benefit of spring termination falls away once they get into projects that have over, say, 20 parts. In addition to this, projects that work on radio frequency, or RF for short, don't like springs as they start to act like little antennae all over the place! So it's time to graduate to the heart of modern electronics - the printed circuit board. This simple device fulfils the function of mounting board & circuit wiring in one. The critical element of success in printed circuit board - or PCB for short - assembly is good soldering. Soldering is not for 8 year olds but its fine if they are older or are under

adult supervision. In Short Circuits II we teach the reader how to solder. We teach you a lot more as well:

- How to use a Multimeter
- What tools will be needed.
- What sort of workspace is needed
 How the circuit works (Tech talk)
- Making the circuit work in the real world

Short Circuits - Volume 2 - Third Edition

Once constructors have the basic skills and knowledge either from a School Design and Technology course, or tackling Short Circuits Vol 1, you can now have some real fun! With this book (and associated project packs available separately - see following pages) they can make such things as a mini strobe light, police siren, mini organ, a couple of powerful radio transmitters, an FM radio - even a 'Knight Rider' scanner!! All components are fully described and explained, along with

Jaucar

tutorials on soldering iron and multimeter use. All projects are safe and battery powered.

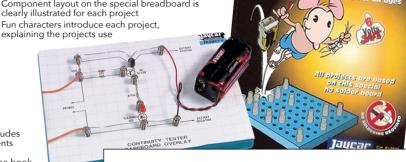
• Soft cover - full colour 148 pages

• 205 x 275mm



constructors everything they need to get started in electronics and is suitable for ages 8+. Kits contain small parts.

- Circuit diagrams included for each project
- Safe 6 volt system
- Techtalk discusses circuit operation and is written in a clear, easy to understand language
 Component layout on the special breadboard is
- Fun characters introduce each project, explaining the projects use



GRAB YOUR FREE PDF DOWNLOAD:

www.jaycar.co.nz/short-circuits

Some of the exciting projects that you can build from this book include:

- Short circuit tester
- Police siren
- Sound effects unit
- Solar powered radio
- Computer type circuits
- Magic Eye light alarm
- Electronic organ
- Light chaser
- 3 types of transistor amps
- And many many more

SHORT CIRCUITS VOLUME 3

SECOND EDITION: Like our Volumes 1 & 2 book, Short Circuits Volume 3 is sold independently to each of the 30-odd projects. Some of the projects constructors will

build include a Guitar Sustain Unit, a Universal Timer, Car Alarm, Two Lamp Flasher plus many more! There's even a project that demonstrates how constructors can use your computer to interface to the real world via a computer's parallel port. Building the projects described in Volume 3 will provide constructors with the confidence needed to tackle more complex projects, such as those described in the various electronics hobby magazines.

• Step by step instructions show you how to assemble each project

• Techtalk explains the operation of each circuit in detail, to help constructors gain a thorough

knowledge of the "Building Blocks" used in circuit design

"What To Do Next" shows constructors how to modify or further improve your project

· Basic circuit theory is provided to increase constructors level of understanding

Short Circuits - Volume 3 - Second Edition

Each project contains a full technical description, with experimental changes to each circuit also explained. After constructors have built any or all of the described projects, there is no reason why they would not be able to successfully tackle any of the construction projects published in the electronics magazines. This book will end up giving them the knowledge and skill that will elevate them into a fully fledged constructor!

- Soft cover full colour 128 pages
- 205 x 275mm







	Cat.	Qty 1+
Volume 3	BJ8505	\$17.90



SHORT CIRCUITS 2 PROJECTS

SC2 Project - Red/Green Flasher

It flashes two LEDs (light emitting diodes) - one red and the other green - alternately, a bit like the light on a police car. A great way to learn how a 555 Timer IC works

- PCB & all parts supplied
 Requires 9V battery
 Instructions NOT included, See KJ8201 or our full colour project book BJ8504
- Recommended Box UB5 HB6015 \$4.00



	Cat.	Qty 1+	Qty 3+	
PCB: 43 x 30mm	KJ8200	\$9.90	\$8.90	
Instructions	KJ8201	\$3.50		

SC2 Project - Countdown Timer

This neat project enables you to dial a time you want to elapse before you want something to happen, say the exposure of a camera shutter or an electrically operated door to stay open. At the end of the timed period (seconds to many minutes) a relay is energized which can

switch something on or off. PCB and all parts supplied, including relay.

- Requires 9V battery
- Instructions NOT included. See KJ8203 or our full colour project book BJ8504
- Recommended Box UB5 HB6015 \$4.00

	Cat.	Qty 1+	Qty 3+
PCB: 61 x 47mm	KJ8202	\$17.90	\$15.90
Instructions	KJ8203	\$3.50	

SC2 Project - Hee-Haw Siren With Flashing Light

This project will make the noise made by emergency vehicles when they are trying to get through traffic. PCB and all parts supplied including flashing LED.

- Requires 9V battery
- Instructions NOT included. See KJ8205 or our full colour project book BJ8504
- Recommended Box UB5 HB6015 \$4.00



	Cat.	Qty 1+	Qty 3+
PCB: 57 x 51mm	KJ8204	\$13.90	\$12.90
Instructions	KJ8205	\$3.50	

SC2 Project - Mini Strobe Light

No, this unit won't fill a disco with blinding white light. Those things are dangerous and run straight off 240V. This one runs off a 9V battery and gives a surprisingly intense white light especially in darkness. Uses state-of-the-art LED. PCB and parts including LED supplied.

- Requires 9V battery
- Instructions NOT included. See KJ8207 or our full colour project book BJ8504
- Recommended Box UB5 HB6015 \$4.00

	Cat.	Qty 1+	Qty 3+	
PCB: 61 x 45mm	KJ8206	\$22.90	\$20.90	
Instructions	KJ8207	\$3.50		

SC2 Project - Touch Switch

This project allows you to turn things on or off simply by touching a small sensor pad with your finger. This could include operating an alarm, water pump, hi-fi speakers, or any other low voltage gadget.

- PCBs & all parts including the relay supplied
 Requires 9V battery
 Instructions NOT included. See KJ8209 or our full colour project book BJ8504



	Cat.	Qty 1+	Qty 3+
PCB: 75 x 26mm	KJ8208	\$17.90	\$15.90
Instructions	KJ8209	\$3.50	

SC2 Project - Drought Alarm

Well, not really a big drought. This will test the soil moisture of a favourite pot plant and an alarm will sound if the soil gets too

- Instructions NOT included. See KJ8211 of our full colour project book BJ8504
- PCB, speaker & components
- Requires 9V battery
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ8210	\$17.90	\$15.90
Instructions	KJ8211	\$3.50	

SC2 Project - Audio Level Display

Make your own fancy volume level display you see on DJ mixing desks where the columns of light dance up and down with the music. Connect it to the output of your CD, tape player or radio. Build two of them for displays on your stereo hi-fi system.

- PCB and all parts supplied
 Requires 9V battery (not included)
 Instructions NOT included. See KJ8213 or our full colour project book BJ8504
 • Recommended Box - UB5 HB6015 \$4.00



	Cat.	Qty 1+	Qty 3+
PCB: 75 x 26mm	KJ8212	\$17.90	\$15.90
Instructions	KJ8213	\$3.50	

SC2 Project - Electronic Organ

You can play simple tunes easily once you have built this project! The organ keyboard is actually part of the printed circuit board. It even has vibrato for extra realism. Includes PCB and all board components

- Requires 9V battery
- Instructions NOT included. See KJ8215 or our full colour project book BJ8504

Recommended Box - UB1 HB6011 \$5.90				
	Cat.	Qty 1+	Qty 3+	
PCB: 133 x 31mm, 133 x 51mm	KJ8214	\$28.90	\$25.90	
Instructions	KJ8215	\$3.50		

SC2 Project - No Brainer Amplifier

This amp is so easy to build, it's a no brainer! It will, however, give a powerful output to bring your MP3 player or sound card alive! Speaker supplied. Two required for stereo. PCB and all relevant parts included.

- Requires 9V battery
- Instructions NOT included. See KJ8217 our full colour project book BJ8504
- Recommended Box UB3 HB6013 \$5.20

				ALCINCO.
	Cat.	Qty 1 +	Qty 3+	
PCB: 64 x 57mm	KJ8216	\$17.90	\$15.90	
Instructions	KJ8217	\$3.50		

SC2 Project - Beam Me Up Scotty Simple Intercom

Enables you to talk (i.e. not shout) between parts of a house, or a house and a garage. You can even leave it on to monitor a baby's room. All parts supplied including PCB and 6-metres of connecting wire. Requires 9V battery.

- Instructions NOT included. See KJ8219 or our full colour project book BJ8504
 • Recommended Box - UB3 x3 HB6013 \$5.20

	Cat.	Qty 1+
PCB: 63 x 57mm	KJ8218	\$36.90
Instructions	KJ8219	\$3.50

SC2 Project - Skeet Shoot Game

Here's a fun way to test your hand-eye coordination. The game sends a burst-of-light 'skeet' up along a string of ten LEDs, try to 'hit' it by pressing the FIRE button at the same time as it reaches the red LED.

- Instructions NOT included. See KJ8221 or our full colour project book BJ8504
- PCB, LEDs and components
- Requires 9V battery
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+	
PCB: 107 x 57mm	KJ8220	\$21.90	\$19.90	
Instructions	KJ8221	\$3.50		

SHORT CIRCUITS 2

SHORT CIRCUITS 2 PROJECTS CONTINUED

SC2 Project - Simple FM Bug

Small portable FM microphone. Works surprisingly well. Use it as a baby minder/monitor as well. PCB and all parts supplied.

- Requires 9V battery
- Instructions NOT included
- See KJ8231 for individual instructions or full colour project book BJ8504
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 59 x 41mm	KJ8230	\$17.90	\$15.90
Instructions	KJ8231	\$3.50	

SC2 Project - Metronome

This neat little metronome does everything that a traditional metronome does. It produces an adjustable 'tick' sound to help you play your music at just the right tempo. It also flashes a LED once per bar, to help you get the music's rhythm right as well.

- PCB, speaker and all parts
- supplied including knobs
 Requires 9V battery
- Instructions NOT included
- See KJ8233 for individual instructions or full colour project book BJ8504
- Recommended Box UB1 HB6011

	Cat.	Qty 1+	Qty 3+
PCB: 82 x 82mm	KJ8232	\$22.90	\$20.90
Instructions	KJ8233	\$3.50	

SC2 Project - Jiminy! What's That Cricket Noise?

This fun project makes the distinct sound of a cricket when triggered by a hidden microphone. Someone walks into a room, says something and the next thing this loud cricket starts to chirp! Hours of fun. PCB and all other parts including microphone supplied.

- Requires 9V battery
- Instructions NOT included
- See KJ8225 for individual instructions or full colour project book BJ8504
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+
PCB: 61 x 45mm	KJ8224	\$19.90
Instructions	KJ8225	\$3.50

SC2 Project - Bionic Ear

This project enables you to listen to a conversation (or a bird in a tree, etc) beyond what you would normally hear. It uses the principle of a directional microphone. PCB and parts supplied. A plastic bowl or similar is required for the reflector

- Requires 9V battery
- Instructions NOT included
- See KJ8227 for individual instructions or full colour project book BJ8504
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ8226	\$21.90	\$19.30
Instructions	KJ8227	\$3.50	

SC2 Project - Casino! Electronic Dice

Well dice is really plural and this is just one dice a die. At the press of a button roll 6 light emitting diodes flash briefly and only one stays lit, representing a number between 1 and 6. Truly, truly random and never rolls off the table! PCB and all parts supplied.

- Requires 9V battery
- Instructions NOT included
- See KJ8223 for individual instructions or full colour project book BJ8504
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+
PCB: 108 x 51mm	KJ8222	\$19.90
Instructions	KJ8223	\$3.50

SC2 Project - Sound Like a Dalek

This project will change your voice into that metallic sounding robot voice so familiar in the space adventure movies. PCB and parts supplied. Connect it to the no brainer amp and get really scary!

- Requires 9V battery
- Instructions NOT included • See KJ8229 for individual instructions or full colour project book BJ8504
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 102 x 57mm	KJ8228	\$28.90	\$25.90
Instructions	KJ8229	\$3.50	

SC2 Project - Knight Rider Light Scanner

Now you can make the light scanner that goes on the bonnet of that famous car. Looks fantastic in all sorts of places! PCB and all parts min bonin supplied.

- Require 9V battery
- Instructions NOT included
 See KJ8237 for individual
- instructions or full colour project book BJ8504
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+	Qty 6+
PCB: 102 x 55mm	KJ8236	\$24.90	\$22.40	\$19.90
Instructions	KJ8237	\$3.50		

SC2 Project - Event Counter - 0 to 999

This project demonstrates how 3-digit counters work and can be used for real-world counting jobs, like counting laps on a slot car set, etc. An excellent 'hands on' introduction to electronics.

- PCB and all parts suppliedRequire 9V batteryInstructions NOT included
- See KJ8235 for individual
- instructions or full colour project book BJ8504
- Recommended Box UB1 HB6011 \$5.90

	Cat.	Qty 1+	Qty 3+	
PCB: 127 x 76mm	KJ8234	\$31.90	\$27.90	
Instructions	KJ8235	\$3.50		

SC2 Project - Three Stage FM Transmitter

So stable it could be used as a small radio station. The audience would be limited to the backyard as there are rules about such things.

- A microphone is included
- Recommended Box UB5 HB6015 \$4.00
- Instructions included in kit



	Cat.	Qty 1+	Qty 3+	Qty 6+
PCB: 70 x 10mm	KJ8750	\$22.90	\$20.90	
Recommended Box - UB5	HB6015	\$4.00	\$3.60	\$3.20

Note: Project packs do not include instructions. Constructors can purchase the book, buy a set of instructions for each project separately or download the book as a PDF for free from our website www.jaycar.co.nz/short-circuits.



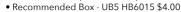
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SHORT CIRCUITS 3 PROJECTS

SC3 Project - Dasher Flasher For Cars

This lamp flasher mounts on your car dashboard and starts flashing when the ignition is off. Looks like the real thing. Kit includes PCB, lamp and all components.



	Cat.	Qty 1+	Qty 3+	
PCB: 47 x 41mm	KJ8050	\$13.90	\$12.90	
Instructions	KJ8051	\$3.50		

SC3 Project - Ding Dong Door Bell

Another useful little kit that generates the sound of a classic Ding Dong door bell. Just the thing for your front door. Kit includes PCB, speaker and all components 12VDC power required.



	Cat.	Qty 1+
PCB: 105 x 60mm	KJ8052	\$18.90
Instructions	KJ8053	\$3.50

SC3 Project - Electronic Eye

Install this kit to monitor traffic on a path or through a doorway. When a person or object breaks the beam the loudspeaker will sound.

- Kit includes PCV, LDR, speaker and all components
- •12VDC power required
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 61mm	KJ8054	\$17.90	\$15.90
Instructions	KJ8055	\$3.50	

SC3 Project - Simple FM Alarm

Track moving objects, find the dog when it runs away or even recover your stolen food using an FM radio. This kit transmits a tone over the FM band so that you can track it down using an FM radio. Kit includes PCB, 9V battery and all electronic components. A fun and useful projec

• Recommended Box - UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8056	\$17.90	\$15.90
Instructions	KJ8057	\$3.50	

SC3 Project - Infared Remote Link

This can be used as a remote on/off or momentary switch.

- Kit includes PCBs, 9V battery and all
- electronic components
 Receiver requires 12VDC power
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+
PCB: 105 x 60mm	KJ8058	\$36.90
Instructions	KJ8059	\$3.50

SC3 Project - Simple Intruder Alarm

This simple design features a normally open and normally closed input, 40 second siren duration and triggered LED indication.

- Kit includes PCB, buzzer and electronic components
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+	
PCB: 105 x 60mm	KJ8060	\$17.90	\$15.90	
Instructions	KJ8061	\$3.50		

SC3 Project - Screamer Car Alarm

A more sophisticated alarm including entry/exit delay, flashing deterrent light, soft warning alarm and deafening internal siren. Thieves will make a hasty retreat!

- Kit includes PCB, siren and electronic components

Instructions



\$3.50

KJ8063

SC3 Project - Light Chase

Dazzling display using 10 LEDs that appear to chase each other. Build for a shop, theatre or advertising display

- Kit includes PCB, LEDs and electronic components
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8064	\$15.90	\$13.90
Instructions	KJ8065	\$3.50	

SC3 Project - Light Scanner / Chaser

An impressive display using 20 LEDs that chase forward and backward - just like scanners seen in space movies

- Kit includes PCB, LEDs & all electronic components
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8066	\$21.90	\$19.70
Instructions	K 18067	\$3.50	

SC3 Project - Really Bright Flasher

Attract attention with this bright halogen light flasher. The flash rate can be adjusted between 0.5 to 3.5 seconds.

- Kit includes PCB, 12V halogen lamp with base and all electronic components
 12VAC power required - use MP3044
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8068	\$29.90	\$26.90
Instructions	KJ8069	\$3.50	

SC3 Project - Two Lamp Flasher

Alternate flashing halogen lamps with an adjustable flash rate between 1 to 4 seconds.

- Kit includes PCB, two halogen lamps with bases and all electronic components
 • 12VAC required - use MP3044
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+	
PCB: 105 x 60mm	KJ8070	\$39.90	\$35.90	
Instructions	KJ8071	\$3.50		

SC3 Project - The Champ Amplifier

A cheap and handy amplifier that can improve low-level signal sources so they can be heard on headphones or a speaker.

- Kit includes PCB, volume potentiometer and all electronic components
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+
PCB: 105 x 60mm	KJ8072	\$22.90
Instructions	KJ8073	\$3.50

SC3 Project - Universal Stereo Preamplifier

If the input signal to your amplifier is not sufficient you will need a preamplifier such as this one to boost the signal.

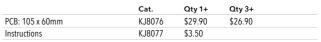
- Kit includes PCB and all electronic components
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1 +	Qty 3+	
PCB: 105 x 60mm	KJ8074	\$17.90	\$15.90	
Instructions	KJ8075	\$3.50		

SC3 Project - High Power 12V Amplifier

This amplifier-on-a-chip can deliver about 13.5-watts into a 4-ohm speaker. That's quite loud!

- Kit includes PCB, amplifier IC, heatsink and all electronic components
 • Speaker and 12VDC power required
 • Recommended Box - UB3 HB6013 \$5.20







SHORT CIRCUITS 3

SHORT CIRCUITS 3 PROJECTS CONTINUED

SC3 Project - Simple FM Microphone

This FM transmitter has many possible uses including baby room monitor, wireless microphone or spy bug. It can be picked up on any FM radio.

• Kit includes PCB, electret microphone, 9V battery and electronic components

• Recommended Box - UB5 HB6015 \$4.00



	Cat.	Qty 1+	Qty 3+
PCB: 48 x 42mm	KJ8078	\$15.90	\$13.70
Instructions	KJ8079	\$3.50	

SC3 Project - Mini-Mitter FM Transmitter

Transmit stereo audio from your tap deck or CD player to any FM radio elsewhere in your house. You could even tune in on a portable walkabout radio.

• Kit supplied with PCB, 1 x AA battery and electronic components

• Recommended Box - UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8114	\$42.90	\$38.60
Instructions	KJ8115	\$3.50	

SC3 Project - Low-Cost Intercom System

A low-cost method of communicating between two rooms. The remote unit is hands free so it's also great as a baby monitor.

- Kit includes PCB, speakers and electronic components
- 12VDC required
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+
PCB: 105 x 60mm	KJ8080	\$22.90
Instructions	KJ8081	\$3.50

SC3 Project - Vox - Sound Switch

This sound-activated switch closes a relay when a loudenough sound is heard. It switches off when the sound stops. Ideal for radio transmitters or surveillance applications.

- Kit includes PCB, relay, electret mic &

electronic components 12VDC required Recommended Box - UB3 HB6013 \$5.	20		
Cat.	Qty 1+	Qty 3+	
PCB: 105 x 60mm KJ8084	\$17.90	\$15.90	

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8084	\$17.90	\$15.90
Instructions	KJ8085	\$3.50	

SC3 Project - Train Sound FX

Authentic sounding train whistle and horn sound effects for your model railway.

- Kit includes PCB, speaker and electronic components
- 12VDC power required
- Recommended Box UB2 HB6012 \$8.90



	Cat.	Qty 1+	Qty 3+
PCB: 160 x 103mm	KJ8086	\$32.90	\$28.90
Instructions	KJ8087	\$3.50	

SC3 Project - Guitar Practice Amplifier

This low cost amplifier allows you to practice your guitar without annoying the neighbours. It has a guitar type input socket, small speaker and volume.

- Kit includes PCB, speaker socket and electronic components
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20





Add this sustain unit to your guitar to make it sound more fulfilling. Features adjustable Decay and Attack

- Kit includes PCB, 6.5mm sockets and electronic components.
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8100	\$29.90	\$26.90
Instructions	KJ8101	\$3.50	

SC3 Project - Guitar Distortion Unit

Distortion is popular to many guitarists. It can make the music sound quite different. Project includes PCB, 6.5mm sockets and electrical components.

- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8102	\$19.90	\$17.90
Instructions	KJ8103	\$3.50	

SC3 Project - Regulated +12V Power Supply

Many of the Short Circuits 3 projects require 12VDC power. Using our plugpack (MP3055), this low cost power supply is ideal to power these projects.

- Kit supplied with PCB, 12V regulator and electronic components
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8104	\$15.90	\$13.90
Instructions	KJ8105	\$3.50	

SC3 Project - Regulated +/- 12V Power Supply

Some applications need a positive and negative supply. This circuit will supply a +12V and -12V rail.

- Kit supplied with PCB, 12V regulators and electronic components
- Requires plugpack MP3055
- Recommended Box UB3 HB6013 \$5.20



	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8106	\$18.90	\$16.90
Instructions	KJ8107	\$3.50	

SC3 Project - Universal Timer

This timer is adjustable between 1-second to 3.5 minutes. An LED illuminates during the timing period and a buzzer sounds at

- Kit supplied with PCB, buzzer & electronic components
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20



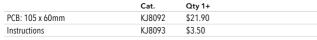
	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8108	\$19.90	\$17.90
Instructions	KJ8109	\$3.50	

SC3 Project - Waveform Generator

This low-cost signal generator produces adjustable square and triangular waves between 100Hz-20kHz. Ideal for testing, troubleshooting and developing circuits.

- Kit supplied with PCB and electronic components
- 12VDC power required
- Recommended Box UB3 HB6013 \$5.20

	Cat.	Qty 1+	Qty 3+	
)mm	KJ8110	\$22.90	\$20.90	
	KJ8111	\$3.50		



PCB: 105 x 60

Instructions



LEARN TO SOLDER KITS

Amazing Wearable Badges & Electronic Dice Solder Training Kits

Now here's a great way to get started with soldering, learn a little about electronics, and end up with a really fun wearable badge or electronic LED dice at the end! This range of projects are brand new and designed exclusively by Jaycar. Each project is powered by a small CR2032 Lithium coin battery, and the badges include a lapel pin so you can wear it too. Each of the designs has a different look and feel, while the electronics involved is slightly different in each one, so you'll learn more about electronics and how it works even if you build them all!



KM1092

KM1094

SKULL BADGE WITH ALTERNATING FLASHING LEDS

This decorative skull design uses a simple transistor circuit to make the LED eyes flash in an alternating pattern. You'll also learn to solder and have a great badge to show for it!

OWL BADGE WITH TOUCH-SENSITIVE LED EYES

You'll have a hoot with this fun kit. It shows you how transistors can be used to have a light finger touch light up LEDs! It's also a great soldering training tool.

KM1097

ROCKET BADGE WITH FLASHING LEDS

Blast off with this great project using the robust 7555 timer chip. You'll make the LEDs flash and have a blast soldering it together, while learning how timer chip can create alternating outputs.

PIRATE BADGE WITH FLASHING EYES Not illustrated.

Solder me hearties! Bring Captain Jaycar to life and learn how the 7555 timer chip can create alternate flashing LEDs! You'll learn to solder it all together too.

ROBOT BADGE WITH TOUCH-SENSITIVE LEDS AND BUZZER

This great robot has a touch-sensitive pad which makes the buzzer and LEDs light up when you touch it. It'll demonstrate touch-pads and the powerful 7555 timer, as well as soldering techniques.



Tap the module on the table to generate a random number between one a six, indicated by the LEDs on the top! It's great to build and highly functional.



	Cat.	Qty 1+	Qty 3+	Qty 6+
Decorative Skull Badge	KM1090	\$22.90	\$20.90	\$17.90
Owl Badge	KM1092	\$22.90	\$20.90	\$17.90
Rocket Badge	KM1094	\$22.90	\$20.90	\$17.90
Pirate Badge	KM1096	\$22.90	\$20.90	\$17.90
Robot Badge	KM1098	\$22.90	\$20.90	\$17.90
Electronic Dice	KM1099	\$22.90	\$20.90	\$17.90

MAKER KITS

Build-A-Game Learning Kit

An Arduino*-based 8-bit handheld game console that you can code or upload your favourite Arduboy games. It is based on the ATMEGA32U4 chip, driven by an Arduino* Leonardo, and features a 1.3" OLED screen. It can be powered by connecting a USB cable or from 2 x AA batteries (not included).

Dimensions: 100(L) x 65(W) x 28(D)mm





Cat.	Qty 1+	Qty 3+	Qty 6+	
XC3752	\$58.90	\$52.90	\$46.90	

maycar**

Look out for our new Maycar kits in the catalogue and on our website.

Maycar kits are projects designed to give you or your kids a springboard into the world of making with Electronics.

We'll be adding lot's of new kits so stay tuned...

3D Traffic Lights Learn to Solder Kit

Kids can take their soldering skill to the next level with this 3D traffic lights kit, then put it to good use on their toy car or train set. Thanks to the included 4017 integrated circuit (IC), the traffic lights will flash just like real traffic lights. You can also adjust the delay between lights. Kit includes circuit board, 9 x LEDs, resistors,

trimpot, transistors, capacitors, diodes, 4017 IC with IC socket, on/off switch, and a 9V battery holder with mounting hardware (9V battery not included). Soldering iron, solder and cutters required.

- Medium difficulty
- Soldering required
 Soldering required





duinotech



Christmas Tree Learn to Solder Kit

A great way to get into the Christmas spirit and learn about electronics, soldering, and Arduino all at the same time. This kit includes a tree shaped circuit board, coloured LEDs, and electronic components to make the tree produce amazing lighting

effects when combined with an Arduino* UNO (sold separately). A soldering iron (eg. TS1465) and solder (eg. NS3013) are required as well, and a multimeter (QM1500) and third-hand PCB holder (TH1982) are also recommended to make construction easier.

Dimensions: 90(H) x 50(W)

mm (excluding pins)

Arduino* UNO required





duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC3754	\$10.90	\$9.90	\$8.90

Santa Sleigh Learn to Solder Kit

Take your soldering skills to the next level with this Riding Santa Kit. The kit includes 126 multicoloured LEDs that animate the stars, sleigh, reindeer legs, and Christmas trees. Power from a 9V battery (not included) to keep it portable, or connect a 9-12VDC power supply (sold separately) for a permanent decoration in your room. An on/off switch is included. Kit includes circuit board, 126 x LEDs, resistors, transistors, capacitors, on/off switch, DC socket, and a 9V battery holder with mounting hardware. Soldering iron, solder and cutters required.

- Medium difficulty
- Soldering required

9V battery required





duinotech

Cat.	Qty 1 +	Qty 3+	Qty 6+	
XC3756	\$33.90	\$29.90	\$26.90	

maycar

ELECTRONICS KITS & PROJECTS:

We are still making a surprising number of kits for printed magazine articles. This is especially so for past projects described in the venerable "Silicon Chip" magazine. You can identify these projects as the Silicon Chip logo will appear alongside the kit in question. Indeed, all kits shown have an icon realing the original source magazine article, including recent kits from DIYODE magazine.

KIT BACK CATALOGUE:

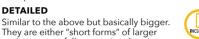
We have also continued to expand our back catalogue of kits that we still have stock of at the Head Office but do not carry in stores. If you are looking for a kit of an old project, check out our website at **jaycar.co.nz/kitbackcatalogue** for a full list of these great kits.

A GUIDE TO KIT ICONS:



SIMPLE

These kits are straightforward to assemble, generally built in one session and will require some basic electronics knowledge and soldering skills. Most are battery or AC adaptor powered. They may not have enclosures (i.e. "boxes") or front panels.



They are either "short forms" of larger projects or are fully operational projects with enclosures, front panels, etc. A greater knowledge of electronics is required to understand their operation and "troubleshoot" if necessary.



All big projects which by their nature are complex, require several sittings to complete and may require some mechanical assembly. A good knowledge of electronics and manual dexterity is necessary to ensure success.



240V POWERED

All mains kits have this logo. We do this because we feel it is necessary that only experienced kit constructors should attempt mains powered projects. It is generally a good idea to have a competent colleague check your work before applying power.



BATTERY INCLUDED

Batteries are included with the kit.



AUTOMOTIVE KIT

Kit is specifically designed for automotive (which could mean motorcycle, caravan or boat as well).



BUILD TIME

We understand that your time is valuable. We have therefore decided to provide you with an estimated build time for all our kits. Each kit includes a stopwatch logo that indicates construction time. We know that you will find this useful.



SMD COMPONENT

Kit involves soldering a SMD (Surface Mount Device). Suitable soldering iron for SMD soldering and proper handling techniques are



SMD COMPONENT SMD PRE SOLDERED

PRE-SOLDERED Kit supplied with surface mount component already soldered onto the PCB



KWIK KIT

A low cost fast assembly range of kits. Kwik kits are a fully imported range that can be assembled in just one sitting, sometimes only minutes! All printed circuit boards are screened with a component overlay. The instructions assume component knowledge & the ability to follow simple schematic diagrams

GUARANTEE ON KITS

Most kits are successfully constructed with few problems. However, we recommend that if a kit builder does not have enough knowledge to diagnose faults, that the project should not be started unless assistance can be obtained. Unfortunately, one small faulty solder joint or wiring mistake can prevent a project from operating, which would take hours to locate and at normal service rates the service charge could well be more than the total cost of the kit.

If you believe that you may have difficulty in building a kit (which is simply a complete set of separate parts made up to a list provided by the major electronics magazines) and you cannot get assistance from a friend, we suggest you return the kit to us in its original condition for a refund under our satisfaction guarantee. Unfortunately, kits cannot be replaced under our satisfaction guarantee once construction has been commenced. However, should you find any faulty parts (only), we will gladly replace them under warranty

INTERVALOMETER

KIT CONSTRUCTOR'S MANUAL

Kit Constructor's Manual

A must for amateur constructors. Contains much useful information for the more experienced. Huge amounts of information on construction and identification of parts.

• 8 pages





Cat.	Qty 1-
BI8200	\$2.00

ELECTRONICS MAGAZINES

Get your DIYODE Magazine at Jaycar!

DIYODE Magazine is a 100% Australian-made, independent publication produced monthly. The magazine's fundamental focus is to provide a valid platform to showcase the amazing creations and the hard work

undertaken by the electronics and maker communities, to solve problems maker communities, to solve problems or to just make really awesome things! Jaycar gets its stock of DIYODE magazine straight off the printing press, so we usually have it a couple of days earlier than the newsagents. Don't forget to call into a Jaycar store for the latest issue hot off the press. For more information about the magazine visit: www.diyodemag.com

But wait, there's more! Every print magazine purchase includes access to a FREE digital edition on the diyodemag.com website Note: Not available in New Zealand.



	Cat.	
DIYODE Magazine	BE5030	Not available in New Zealand

Get your SILICON CHIP at Jaycar

Silicon Chip is Australia's leading magazine for the electronics enthusiast. As well as a great range of fun DIY kits, SILICON CHIP has interesting features articles and popular columns such

as "Serviceman's Log" and "Circuit Notebook" etc. Jaycar gets its stock of SILICON CHIP straight off the printing press, so we usually have it a couple of days earlier than the newsagents. Don't forget to call in to a Jaycar store for the latest issue hot off the press.









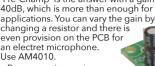
	Cat.	Qty 1+	
Silicon Chip Magazine	BE5027	\$12.90	

AMPLIFIER & PREAMPLIFIER KITS

"Pre-Champ" Versatile Preamplifier

Refer: Silicon Chip Magazine July 1994

This tiny preamp was specifically designed to be used with the 'Champ' amplifier KC5152. Unless you have a signal of sufficient amplitude the 'Champ' will not produce its maximum power output. The 'Pre-Champ' is the answer with a gain in excess of 40dB, which is more than enough for most applications. You can vary the gain by





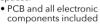
- Kit includes PCB and electronic components
- Can be battery powered

	_			
	Cat.	Qty 1+	Qty 5+	
Kit	KC5166	\$12.90	\$11.90	
Microphone To Suit	AM4010	\$3.40	\$3.05	
Recommended Box - UB5	HB6015	\$4.00	\$3.60	

"The Champ" Audio Amplifier

Refer: Silicon Chip Magazine February 1994

This tiny module uses the LM386 audio IC, and will deliver 0.5W into 8 ohms from a 9 volt supply making it ideal for all those basic audio projects. It features variable gain, will happily run from 4-12VDC and is smaller than a 9 volt battery, allowing it to fit into the tightest of spaces.



• PCB: 46 x 26mm



	Cat.	Qty 1+	Qty 5+
Kit	KC5152	\$12.90	\$11.90
Recommended Box - UB5	HB6015	\$4.00	\$3.60

'The Champion' Audio Amplifier Kit with Pre-Amplifier

Refer: Silicon Chip Magazine January 2013

An amplifier and pre-amplifier combination for all those general-purpose audio projects. It uses the AN7511 audio IC to deliver 2W music power into 8 ohms from a 9 to 12V supply. Features low distortion, two inputs (mixed 1:1), over-temperature protection (auto-limiting), mute and standby control. Pre-amplifier is also suitable for microphones and electric

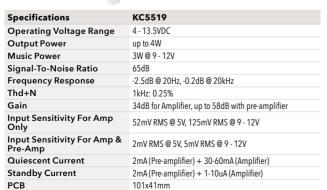
guitars, and can be separated from the amplifier for individual use. Kit supplied with silk-screened PCB, heatsink and PCB mount components.

Note: Optional 10k ohm potentiometer



Kit

A136



Cat

KC5519

Qty 1+

\$29.90

Qty 5+

\$26.90

1 Watt Audio Amplifier

This tiny PCB measuring only 28 x 28mm incorporates all the electronics for a 1 Watt amplifier. 4 to 12VDC operating voltage, 50mV input sensitivity, 8 ohm output and 20 to 25000Hz output frequency. Optional connection for a 10k ohm - 100k ohm logarithmic

PCB and components

9VDC (use MP3146)

• PCB: 41 x 24mm

9VDC Plugpack To Suit

Kit



\$20.90

MP3146

AUDIO EFFECTS KITS

Clifford The Cricket

Refer: Silicon Chip Magazine Dec 1994

Clifford hides in the dark and chirps annoyingly until a light is turned on - just like a real cricket. Clifford is created on a small PCB and has little LED insect eyes that flash as it sings. Just like a real cricket, it waits a few seconds after darkness until it begins chirping, and stops instantly when a light comes back on.

• PCB, piezo buzzer, LDR plus all electronic components supplied

PCB: 41 x 36mm



Theremin Synthesiser Kit MkIII

Refer: Silicon Chip Magazine Jan 2018

Originally invented in 1919 using valve technology, and as featured on the soundtrack for the 1951 film "The Day the Earth Stood Still", the all "new" completely transistorised Theremin will give you a truly retro sound.

This kit is easy to build with everything incorporated into one circuit board. Also, most components, the switch, the pot and the power socket are mounted on the circuit board to eliminate messy wiring; the use of on board voltage regulation to suit an AC power supply eliminates the noise that results from modern switch power supplies; and it can also be powered by an external 12 volt battery.

We'll be honest, it is tricky to play and generally suits someone experienced with string instruments like a violin (Leon Theremin himself was a cello player), but with a little practice you can play some basic tunes, or just use it to make eerie sci-fi sound effects.



HOUSEHOLD KITS

Liquid Level Sensor

When two contacts are shorted by liquid, an LED will illuminate. Use in applications such as an overflow alarm and rain detector. Connect Relay Card KG9142 for a relay output to operate lights, sirens or other warning devices.

• Project requires 9VDC

• Kit supplied with Kwik Kit PCB and all electronic components

PCB: 45 x 15mm

	Cat.	Qty 1+	Qty 5+
Kit	KG9138	\$11.90	\$10.70
Recommended Box - UB5	HB6015	\$4.00	\$3.60





\$18.90













KITS & PROJECTS

VISUAL EFFECTS KITS

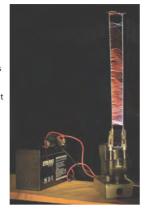
Jacob's Ladder MK3 Refer: Silicon Chip Magazine February 2013

A spectacular rising ladder of bright and noisy sparks for theatre special effects or to impress your friends. This improved circuit has even more zing and zap than it's previous design from April 2007 and requires the purchase of a VS Commodore 12V ignition coil (available from auto stores and parts recyclers). Kit supplied with silk-screened PCB, diecast enclosure (111 x 60 x 30mm), per-programmed PIC, PCB mount components and pre-cut wire/ladder.

 Powered from a 12V 7Ah SLA or 12V car battery

Note: Battery not included.

WARNING: THE JACOB'S LADDER KIT USES POTENTIALLY DANGEROUS VOLTAGE.



DIYODE (4+)

	Cat.	Qty 1+	Qty 5+
Kit	KC5520	\$79.90	\$71.90

Build a Blue LED Cube 4 x 4 x 4 -

Learn to Solder Kit As described in the May 2020 DIYODE magazine

Build and marvel at your own programmable LED cube.
This kit turns sixty-four blue LEDs, circuit board, a handful of components, and an Arduino* UNO compatible board (XC4410 sold separately) into an animated 4x4x4 LED cube. Once you have successfully soldered the cube together, plug it into your favourite Arduino* UNO

favourite Arduino* UNO compatible board and watch the LEDs alternate between fifteen different patterns. We also include instructions to program your own patterns. Tools and soldering required.

Note: Arduino® UNO board not included



	Cat.	Qty 1+	Qty 3+	Qty 6+
Kit	KM1097	\$22.90	\$20.90	\$17.90

AUTOMOTIVE KITS

Car Battery Monitor

Refer: Electronics Australia May 1987

Don't get caught with a flat battery! This simple electronic voltmeter lets you monitor the condition of your car's battery so you can act before getting

you can act before getting stranded. 10 round 5mm LEDs tell you your battery's condition.

- Kit includes PC board and all components
- PCB: 62 x 39mm



	Cat.	Qty 1+	Qty 5+
Kit	KA1683	\$24.90	\$22.40
Recommended Box - UB5	HB6015	\$4.00	\$3.60

The 'Flexitimer'

Refer: Electronics Australia March 1991

Now in it's third revision by Jaycar, the Flexitimer uses a 555 timer coupled with a binary counter to create a simple and consistent timing circuit. In the original one-shot mode the timer will count up to the set point and switch the relay once. In the additional interval mode the timer will continue switching the relay at each recurrence of the set point. The circuit

can be set at 11 time points with the minimum being 7 seconds and each step doubling the time to a maximum of 2 hours.

Other times are possible by changing components C1, R1, and R2. Features of the third revision include a restarting the one-shot mode from an external switch or signal, a more energy efficient design, & space on the PCB for terminal blocks (not included).

 Requires 12- 15V DC (use Cat. MP3147 plugpack) / Optional UB5 case (HB6015)

• PCB Dimensions: 74 x 47mm

	Cat.	Qty 1+	Qty 5+
Kit	KA1732	\$29.90	\$26.90
12VDC Plugpack To Suit	MP3147	\$20.90	\$18.90
Recommended Box - UB3	HB6013	\$5.20	\$4.65

Temperature Switch

Ideal for turning fans or heaters on at certain temperatures. This kit operates a relay when a preset temperature is exceeded and drops-out the relay when temperature drops. The relay included is capable of switching small currents only, so a larger relay or switching device should be employed if switching mains voltages or heavy currents. Ideal as a thermostat, ice alarm, hydroponics applications, etc. A small trimpot is used to adjust the cutout temperatures for the relay in the range of approx -30 to +150° C.

- PCB, NTC thermocouple and
- components • 12VDC, 100mA
- PCB: 56 x 28mm

	Cat.	Qty 1+	Qty 5+	
Kit	KG9140	\$29.90	\$26.90	
12VDC plugpack to suit	MP3147	\$20.90	\$18.90	
Recommended Box - UB5	HB6015	\$4.00	\$3.60	

POWER KITS

12VDC Relay Card

Add a relay output to your equipment.

This kit will close a relay's contacts with as little as 5mA to trigger the circuit. Literally any kit you see on these pages that uses an LED as a trip-condition indicator, can be used with this nifty project. Use the relay to sound buzzers, switch on lights, operate solenoids, trigger alarms, etc.

- Operation: common ground output LED to ground
 Kit includes Kwik Kit PCB, relay plus
- Kit includes Kwik Kit PCB, relay plus electronic components
- PCB: 45 x 17mm

5A 12VDC PWM Motor Speed Controller Kit

Refer: Diyode Magazine March 2018

This kit is a "bare bone" motor speed controller for fairly low current, low voltage applications. It is ideal, for example, to control small robotic motors or pump motors. It costs about one third of the more sophisticated PWM (Pulse-Width-Modulated) controller kits shown elsewhere in this section (although these kits are higher current capacity).

Note: image shown is DIYODE's prototype The kit includes a solder-masked and silkscreened PCB.

Cat.	Qty 1+	Qty 5+	
KD6102	\$19.90	\$17.90	

POWER KITS CONTINUED

Universal +/- 15VDC 1A Power Supply Regulator

Refer: Silicon Chip Magazine March 2011

This is an upgraded version of the original universal power supply kit published in August 1988. One small board and a handful of parts will allow you to create either a regulated ±15V rail or +15VDC single voltage from a single winding or centre tap transformer (not included). Substitute different regulators to these supplied and you can alter the output voltage to your requirements. Upgrades in this design include improved parts layout and terminal blocks for inputs and outputs. Kit includes PCB and all components for 15 volt

versions, transformer sold separately. PCB: 72 x 30mm



 ±15V rails from 15V AC plug pack (MP3059) or transformer (MM2002)

• ±15V rails from 30V AC centre tapped transformer (MM2007)

- +15VDC from a single or centre tap transformer
- Different voltages using 78xx and 79xx series regulators (not included)



	Cat.	Qty 1+	Qty 5+
Kit	KC5501	\$21.90	\$19.70
15VAC Transformer To Suit	MM2002	\$14.90	\$13.90
30VAC CT Transformer To Suit	MM2007	\$11.90	\$10.90

TEST EQUIPMENT

Logic Probe Kit

Refer: Diyode Magazine Oct 2017

This logic probe will help you diagnose and troubleshoot your 3.3V or 5V circuits, including Arduino* and Raspberry Pi projects. It indicates a logic low or logic high state on the green and red LEDs, and shows a shift between states on the orange LED. There is also a switch for TTL or CMOS circuits. Kit supplied with double-sided screen printed PCB and specified parts. We've even thrown in the paperclip for the probe tip. You'll need to 3D print your own case though, for which you can download the print file from the DIYODE website.



	Cat.	City 1+
Logic Probe Kit	KD6100	\$20.90

Digital Multimeter Kit

Learn everything there is to know about component recognition and basic electronics with this comprehensive kit. From test leads to solder, everything you need for the construction of this meter is included together will a detailed manual. With test questions and schematic supplied in the manual, the kit can be geared to an

individual or class learning environment, making it an excellent choice for first year trade apprentices. Kit includes DMM case, LCD, solder, battery, test leads, PCB, comprehensive 18 page learning manual and electronic components.

- All you'll need is a soldering iron
- Meter dimensions: 67(W) x 123(H) x 5(D)mm

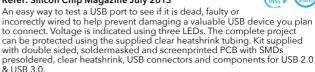


	Cat.	Qty 1+	Qty 5+
Kit	KG9250	\$34.90	\$30.90

→ p.A54 - Huge Range of DMMs

USB Port Voltage Checker

Refer: Silicon Chip Magazine July 2013



• PCB: 44 x 17mm



	Cat.	Qty 1+	Qty 5+
Kit	KC5522	\$42.90	\$38.60

BOOKS

Teach Yourself Electricity and Electronics

Comprehensive, straightforward and well-written, this book covers everything from atomic structure to DC & AC theory, semi-conductors, integrated circuits, digital electronics & communications. Each chapter has a quiz at the end so you can test your knowledge. One of the best entry-level self-teaching textbooks on electronics we've ever



• 232 x 190mm

DIYODE





This Book Isn't Safe - Colin Furze

In the words of YouTuber and Author Colin Furze: In my 10 years making crazy inventions and madcap projects on the internet I've been inspiring people young and old to get into engineering and take up a more practical life. So with this in mind I've teamed up with Penguin

life. So with this in mind I've teamed up with Penguin to create a book for kids that will carry this inspiration and help them work up to being confident with tools and materials that is the foundation of what I do. There will be 10 projects that get progressively more challenging for you to create at home that are low cost and need only basic tools. As well as these DIY projects the book will cover some of my favourite inventions with pictures and cartoons so even those that on't like a lot of words (my younger self) can enjoy this to the max. 192 pages.

Great for beginners

	Cat.	Qty 1+
his Book Isn`t Safe - Colin Furze	BM7146	\$33.90

Mastering Microcontrollers Helped By Arduino*

The aim of this book is not only to let you enter the World of Arduino*, but also to help you emerge victorious and continue your microcontroller programming learning experience by yourself. In this book theory is put into practice on an Arduino* board using the Arduino* programming environment. Having completed this fun and playful course, you will be able to program any microcontroller, tackling and mastering I/O, memory, interrupts, communication (serial, I²C, SPI, 1-wire, SMBus), A/D converter,

and more. For this second edition, the author has designed a versatile printed circuit board that can be stacked on an Arduino* board. The assembly can be used not only to try out many of the projects presented in this book but also allows for new exercises that in turn provide the opportunity to discover new techniques.

This book is for you if you are:

- A microcontroller novice
- An Arduino[®] user (enthusiast, artist, etc.) wishing to deepen your knowledge
- An electronics graduate or undergraduate student
- A teacher looking for inspiration
- Soft cover, 380 pages
- 209(L)x139(W)mm



THIS

BOOK

ISN

Cat.	Qty 1+
BM7144	\$99.90

BOOKS & INSPIRATION

BOOKS CONTINUED

Elektor Python 3 Programming and GUIs 2nd Edition

This is the second edition of a book aimed at engineers, scientists and hobbyists who want to interface PCs with hardware projects using graphical user interfaces. Desktop and web based applications are covered. The programming language used is Python 3 which is one of the most popular languages around: speed of programming being a key feature. The book has been revised and updated with emphasis on getting the user to produce practical designs with ease - a text editor is all that is required to produce Python programs.Hardware interfacing is achieved using an Arduino* UNO as a remote slave. A full description and source code of the communication interface is given in the book. The slave provides digital and analogue input and outputs. Multiple UNOs can be included in one project with all control code written in Python and running on a PCOne project involves a PIC microcontroller with code

provided that can be loaded into the PIC using the UNO. The web applications and server are all implemented in Python allowing you to access your electronic hardware over the Internet. The Raspberry Pi computer can be used as your web server.An introductory chapter is provided to get you started with using Linux. The book is written for use with Debian or variations including Mint or Ubuntu. All of the programs in the book are freely available, ready to use and experiment with by way of a download from Elektor.

- Soft cover, 222 pages
- 235(L) x 170(W)mm



ARDUINO

WORKSHOP

Arduino

Programming

Arduino

Cat.	Qty 1
RT1381	\$40.0

Arduino* Workshop Book - 65 Projects

In Arduino® Workshop you will learn to make projects that add-on to your Arduino® microcontroller platform. The book is very hands-on, describing 65 projects you can make. Lavishly illustrated with very clear text and lots of professional tips for the novice constructor. Projects include a digital thermometer, GPS logger, handy voltage tester, keypad combination lock, a binary quiz game and much, much more

• Soft cover, 370 pages, 180 x 235mm

Great weekend projects



Cat. Qty 1+ BM7137 \$54.90

Arduino* Circuit & Projects Guide

From basic to more elaborate projects are covered, so that even students and teachers with some pre-existing technical knowledge will encounter new challenges. The skill and experience level required for these projects ranges from absolute beginner, to hobbyist-expert. Beginners will benefit from progressing through the book as they build their skills, while experienced readers will find it a useful handbook.

- Complex applications for advanced users
- Programming essentials
 Simple entry level projects
 Interface and hardware extensions
- Soft cover, 260 pages. 235 x 170mm



Cat.	Qty 1+
BM7142	\$89.90

Programming Arduino*: Getting Started with Sketches

This entry level book explains what an Arduino® microcontroller actually is (i.e. a very small stand alone computer), introduces you to the Arduino* programming language (called, "C") and then describes the basic configurations of Arduino* modules. It then goes into the detail of getting Arduino*'s to deal with the real world, finishing with a discussion on C++ and more sophisticated applications.

• Soft cover, 162 pages, 138 x 215mm

Great for beginners



Cat.	Qty 1+	
BM7133	\$32.90	

C Programming for Arduino

Technology is constantly changing. New microcontrollers become available every year. The one thing that has stayed the same is the C programming language used to program these microcontrollers. If you would like to learn this standard language to program microcontrollers, then this book is for you!



		٠,
C Programming for Arduino* Book	BT1388	\$79.90

Practical Arduino®

An indepth book that takes you beyond the basics quite quickly and shows you how to make up a typical application/design. Examples of typical projects, 14 in all are worked through, ranging from simple to quite complex. This is a necessity as it goes to the heart of Arduino*

- Soft cover, 422 pages
- 235 x 190mm

Cat.	Qty 1+
BM7132	\$69.90

Programming Android Apps

The book explains the operation of the Android OS in a clear step-by-step method. The book offers a wide range of applications based on handson examples, covering everything from simple math programs, reading sensors and GPS data, right up to programming for advanced Internet applications. Besides writing applications in the Java programming language, this book also explains how apps can be programmed using Javascript and PHP.

Soft cover, 244 pages, 234x169x14mm



Android Apps

RDLING

Arduino* + Android Projects For the Evil Genius

Not particularly evil, but another project oriented book written around Android-type mobile phones and the Arduino® microcontroller. You can, for example turn your Android phone into a Geiger counter, a TV remote controller, etc. Many projects use both the Arduino* and the Android culminating in the creation of a home Automation system.

Soft cover, 197 pages, 215 x 275mm



Cat.	Qty 1+
BM7135	\$58.90

Arduino® Robot Builder's Bonanza

This book guides you through the construction of 7 robots that roll, walk, talk, slither and even sling insults at you. All projects feature the Arduino* microcontroller platform. Step-by-step assembly diagrams and instructions provided.

- Soft cover
- 400 pages, 230 x 185mm



Cat.	Qty 1+
DM7126	\$64.00

30 Arduino* Projects for the Evil Genius

This is a practical project oriented book describing lots of projects based around the Arduino microcontroller. Be warned, there is nothing intrinsically evil about this book. The title is a catchy marketing department trick. It does have, however, 30 practical projects which specify components which are mostly available from Jaycar. Hours & hours of evil fun

Soft cover, 191 pages, 220 x 275mm

Great for weekend projects

1		7
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	Qt	y 1+

Cat.

BM7134

\$58.90

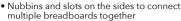


A139

PROTOTYPING BREADBOARDS & JUMPER LEADS

Mini Breadboard with 170 Tie Points

With self-adhesive tape on the back, it is ideal for DIY projects including Arduino*. It has 17 holes x 10. Total 170 holes. It can also be permanently mounted with screws (not



• Dimensions: 46(L) x 35(W) x 9(H)mm

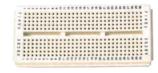
• Weight: 14g



Mini Breadboard with 300 Tie Points

One terminal strip supplied which gives 30 holes x 10. Total 300 holes.

• Dimensions: 39(W) x 87(L)mm

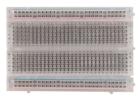


Cat.	Qty 1+	Qty 4+	Qty 10+
PB8832	\$15.90	\$14.30	\$12.70

Breadboard with 400 Tie Points

Mid-sized prototyping breadboard with 400 tie points.

- 300 tie points in centre section
- 100 tie points on power rails
- Dimensions: 83(L) x 55(W) x 10(H)mm



			-
Cat.	Qty 1+	Qty 5+	Qty 10+
PB8820	\$9.50	\$8.55	\$7.60

Breadboard with 830 Tie Points

With labelled rows and columns and adhesive back for mounting, it is ideal for electronic prototyping and Arduino* projects.

- Tie points: 830
- Distribution holes: 200
- Terminal holes: 630 • Nubbins and slots on the sides to connect multiple breadboards together
- Dimensions: 165(L) x 54(W) x 9(H)mm, 74g



Cat.	Qty 1+	Qty 5+
PB8815	\$19.90	\$17.90

Breadboard - Large Scale

- 1660 tie points
- 400 distribution holes / 1280 terminal holes
- Mounted on a metal plate
- 3 banana terminals • Rubber feet
- Dimensions: 157(W) x 237(H)mm
- Board size: 130(W) x 175(H)mm



Cat.	Qty 1+	Qty 4 +	Qty 10+
PB8816	\$54.90	\$48.90	\$43.90

Acrylic Base for UNO and Breadboard

This compact acrylic board allows mounting an UNO (or Leonardo) and PB8820 sized breadboard to create



Cat.	Qty 1+	Qty 4+	Qty 10+
PB8840	\$14.90	\$13.90	\$11.90

Solderless Breadboard with **Power Supply & Jumper Lead Kit**

This kit comprises of a solderless breadboard with 830 connection tie-points, a power supply module and 64 pieces of mixed jumper leads. Ideal for circuit board prototyping and heean or circuit board prototyping and Arduino* projects. The power module can be plugged into the power rails and can be powered from either a 12V plug pack or from 5V using the USB socket, and has a switchable output between 3V and 5VDC

- 1 x Solderless Breadboard with 830 Points
- 1 x Power Supply Module
- · 64 mixed jumper wires of different lengths and colours

Cat.	Qty 1+	Qty 5+	Qty 5+
PB8819	\$25.90	\$22.90	\$20.90

Breadboard Power Module

Receiving power from a USB socket or DC socket, this module adds a compact power supply to your breadboard.

- Plugs straight into most bread boards
- Can be set to 3.3V or 5V
- Concave design saves space
- Dimensions: 57 x 24 x 21mm

Cat.	Qty 1+	Qty 5+	Qty 10+	
XC4606	\$11.90	\$10.70	\$9.50	

Stackable Header

Build a stackable shield, or make your current shield stackable with the Duinotech Stackable Headers. Alternatively, shorten the pins to make female headers just like the duinotech main boards.

Includes:

- 1 x 10-pin
- 2 x 8-pin • 1 x 6-pin
- 1 x 2x3-pin (for ICSP)

duinotech

Cat.	Qty 1+	Qty 4+	Qty 10+
HM3208	\$5.80	\$5.20	\$4.60

28 Pin SOIC/SOP to DIP Breadboard Adaptor

More and more IC's are now only available as surface mount variants, making prototyping harder. The SMD breadboard adaptor allows SMD IC's and other smaller

pitch components to be used with standard 0.1" prototyping equipment such as breadboard and protoboards.

- Suits 4-28 pin SOP/SOIC IC's (SOIC on one side, SOP on the other)
- 1.27mm pitch and 0.65mm pitch
- Header strip included

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	Cat.	Qty 1 +	Qty 10+	Qty 25+	
28 pin SOIC/SOP to DIP Adaptor	PI6530	\$3.30	\$2.90	\$2.60	

	Cut.	caty ii	city io.	City 20.
28 pin SOIC/SOP to DIP Adaptor	PI6530	\$3.30	\$2.90	\$2.60

Breadboard Jumper Kit

This kit consists of 70 pcs of single core sturdy wire which has been stripped on each end and bent at right angles.

- Specifically made for breadboards

 There are 5 pcs each 	1
of 14 different lengt	ns

14 different lengths					
	Cat.	Qty 1+	Qty 4+	Qty 10+	
	PB8850	\$13.90	\$12.90	\$10.90	

Economy Breadboard Jumper Kit

Solid core hookup cable, which is the ideal size for breadboards. Cut it to whatever lengths you require and strip the ends.

• 2 metres each of 5 colours (Colours may vary from time to time.)



	Cat.	Qty 1+	Qty 4+	Qty 10+	
Per Pack	WH3032	\$5.60	\$5.00	\$4.50	

PROTOTYPING ACCESSORIES

PROTOTYPING BREADBOARDS & JUMPER LEADS

150mm Jumper Leads

A pack of 40 jumper leads of various colours for prototyping. Ideal for Arduino* and DIY projects. Each flexible lead is 150mm long with pins to suit breadboards or PCB headers.





	Cat.	Qty 1+	Qty 5+
Plug to Plug	WC6024	\$7.30	\$6.50
Socket to Socket	WC6026	\$7.30	\$6.50
Plug to Socket	WC6028	\$7.30	\$6.50

Jumper Lead Mixed Pack

A mixed pack of jumper leads for your Arduino*, breadboarding and prototyping projects.

- 30 Plug-Plug
- 40 Plug-Socket30 Socket-Socket
- All 150mm long

	Cat.	Qty 1+	Qty 5+
100 Pieces	WC6027	\$16.90	\$14.90

20cm Pin to Alligator Clip Jumper Lead Set

These jumper cables with alligator clips are perfect for prototyping components where a breadboard isn't suitable. Alligator clips are insulated with rubber covers to avoid shorting when testing components with multiple





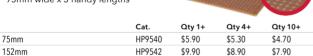
	Cat.	Qty 1+	Qty 4+	Qty 10+
10 Pieces	WC6032	\$10.90	\$9.90	\$8.90

PCB EXPERIMENTING & PROTOTYPING

PC Boards - Vero Type Strip

Alphanumeric grid, pre-drilled 0.9mm, 2.5mm spacing

 Dimensions 95mm wide x 3 handy lengths



152mm HP9542 \$9.90 \$8.90 305mm HP9544 \$14.90 \$13.90

Universal Pre-Punched Experimenter's Boards

The low cost way to build prototype or one-off projects. We now stock 3 sizes of phenolic board that has a matrix of punched holes on 0.1" (2.5mm) pitch with 'donut' of tin plated copper around each hole. Finally the nonsolder side of the board has an alphanumeric grid printed on it to assist in the component identification board layout.

SMALL - HP9550

- 95 x 72mm, 25 x 30 holes (750)
- 3.6mm edge pitch.

MEDIUM - HP9552

- 140 x 95mm, 29 x 50 holes (1450)
- 3.6mm edge pitch.

LARGE - HP9554

- 210 x 78mm, 24 x 67 holes (1608)
- 3.6mm edge pitch.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	HP9550	\$5.80	\$5.20	\$4.60
Medium	HP9552	\$8.90	\$8.00	\$7.10
Large	HP9554	\$11.90	\$10.90	\$9.90

Unclad Punched Laminate

A single 150(L) x 70(W)mm strip of phenolic punched at 0.1" (2.5mm) grid with NO laminate (copper) on either side.



Cat.	Qty 1+	Qty 4+	Qty 10+
HP9562	\$7.90	\$7.10	\$6.30

Ultra Mini Experimenter's Boards

20 holes deep by 16 holes wide with "links" and "strips' (bus rails) every 2 holes. Board measures a compact 65 x 45mm and is extremely versatile. Supplied as a pair, end-to-end. Can be snapped apart to make two boards (dimensions above) or one 130 x 45mm 0.3" wide x 0.1" pitch.

• Ideal for DIL ICs in small numbers

Cat.	Qty 1+	Qty 4+	Qty 10+
HP9556	\$6.90	\$6.20	\$5.50

IC Experimenter's Board

You can fit dozens of DIL ICs on this board. 30 holes deep x 50 holes wide, with a "link"/"strip" (bus rails) pattern enabling alternate V+ and earth rails. Very versatile.

- Alphanumeric markings on grid pattern
- Dimensions: 140 x 95mm

Cat.	Qty 1+	Qty 4+	Qty 10+
HP9558	\$9.90	\$8.90	\$7.90

Spot Face Cutter for Strip Boards

The spot face cutter is designed to neatly remove the copper strip on strip type prototyping boards. Insert the tool in the pre-drilled hole and rotate it until the track is removed entirely. Easy to use and much more efficient than other methods.

 Dimensions Handle: 60(L) x 17(W) x 17(D)mm Total Length: 110mm





HP9570

Cat.	Qty 1+	Qty 3+	Qty 6+	
TD2461	\$11.90	\$10.90	\$9.50	

Breadboard Layout Prototyping Boards

A prototyping board that lets you transfer your breadboard design without having to rework it. Includes five holes on each side per row and power rails running the length of the board.

Two sizes to choose from.

SMALL:

- 25 rows 400 holes
- Similar layout to PB8820
- 73mm x 47mm x 1 4mm

LARGE:

• 59 rows • 862 holes

\$11.90

- · Similar layout to
- PB8815 Breadboard
- 155mm x 58mm x 1.4mm

	, .			
	Cat.	Qty 1+	Qty 4+	Qty 10
0 hole	HP9570	\$5.60	\$5.00	\$4.45

UD0572

400 HP9572 \$10.90 \$8.90 \$9.90

Copper Tape with Adhesive Backing

- Solderable
- Repair printed circuit boards
- Create antennas and shielding
- 5mm x 25m

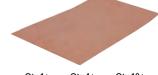


	Cat.	Qty 1+	Qty 4+	Qty 10+
25m	NM2870	\$7.90	\$7.10	\$6.30

Pressboard Insulation Material

Similar to Presspahn Elephantide*, this product is a heavily pressed crafttype board which is used as an insulator in mains products. It can be scored, folded and formed into many shapes, particularly into boxes or partitions to isolate mains circuits from fingers. It has good abrasion resistance and is often used in areas where chafing from vibration can occur.

- Thermal Rating: 150°C
- Dielectric Strength: 12kV/mm
- Sheet thickness: 0.8mm
- Sheet dimensions: 225(H) x 208(W)mm



Cat.	Qty 1+	Qty 4+	Qty 10+
HG9985	\$5.90	\$5.30	\$4.70

PCB MAKING

Blank Fibreglass PCB

Pure copper bonded to quality fibreglass

- HP9514, 9512, 9510 are single sided
- HP9515 is double sided



150x75 Single Sided HP9514 \$7.90 \$7.20 \$6.50 150x150 Single Sided HP9512 \$10.90 \$9.50 \$8.50 150x150 Double Sided HP9515 \$11.90 \$10.70 \$9.50 300x300 Single Sided HP9510 \$29.90 \$26.90 \$23.90			Cat.	Qty 1+	Qty 4+	Qty 10+
150x150 Double Sided HP9515 \$11.90 \$10.70 \$9.50	150x75	Single Sided	HP9514	\$7.90	\$7.20	\$6.50
	150x150	Single Sided	HP9512	\$10.90	\$9.50	\$8.50
300x300 Single Sided HP9510 \$29.90 \$26.90 \$23.90	150x150	Double Sided	HP9515	\$11.90	\$10.70	\$9.50
	300x300	Single Sided	HP9510	\$29.90	\$26.90	\$23.90

Etch Resistant & Waterproof Pen

The ink from the pen is etch-resistant so you have a quick and simple way of making a PCB! Being waterproof it is also great for labeling things on or about the boat, caravan or motor home. The ink will wash off afterwards with metho, turps, etc.

- Excellent smudge-proof and waterproof qualities
- Dries in seconds
- Low-odour ink

- Xylene and toluene-free ink
- Line width fine approx. 0.6mm

	Cat.	Qty 1+	Qty 4+	Qty 10+	
Blue	TM3002	\$7.90	\$7.10	\$6.30	

PCB Etching Kit

An ideal kit for anyone needing to etch a circuit board complete with an assortment of copper boards, etchant, working bath and tweezers. It also includes a positive acting photosensitive PCB and developer.

Supplied with:

- 1 x Plastic bath to accept PCBs up to 180 x 110mm 1 x Photosensitive single
- sided PCB
- 1 x Sachet of positive developer for Riston
- 1 x 100g sachet of sodium persulphate etchant

1 x Plastic tweezers Assortment of PCB's, instru	ictions			
	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG9990	\$34.90	\$30.90	\$27.90

PROTOTYPING ACCESSORIES

Polymorph Pellets

Polymorph will change the way you make parts. It's a commercial grade thermoplastic parts. It's a commercial grade thermoplastic that softens enough to be formed into any shape at around 62 - 65° C. You simply heat the pellets in hot water. It hardens at room temperature to form a tough plastic material similar in consistency and colour to nylon. It can be drilled, sanded, ground, machined, painted or heated and reformed again and again. Endless uses in model making. craft, single part manufacture, prototyping, engineering, science, lab and more

• Supplied in a 100g bag of 3mm pellets.



This car was moulded in minutes using a car baking tin!

Cat.	Qty 1+	Qty 4+	Qty 10+
NP4260	\$14.90	\$13.90	\$11.90

Aluminium Sheet

18 gauge.



	Cat.	Qty 1+	Qty 4+	Qty 10+
295 x 295mm	HM9500	\$20.90	\$18.90	\$16.90

p.A36 - Metal Bending Pliers

Ammonium Persulphate 250g

The alternative to Ferric Chloride. Mix one part etchant with 5 parts hot water to etch copper board. Contents will etch about 300sq/cm.

• 250 grams



	Cat.	Qty 1+	Qty 4+	Qty 10+
250q	NC4258	\$13.90	\$12.90	\$10.90

PCB Wash Defluxing Solution

Removes flux and residue from circuit boards to provide an extremely clean and contaminant free surface. The ready to use solution can be safely used in ultrasonic tanks for various applications including: jewellery, metal parts degreasing, removing flux and cleaning sensitive electronic parts. Appropriate for both static and ultrasonic cleaner use.

- Non-flammable
- Water- based (Biodegradable)



	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Litre Bottle	NA1070	\$18.90	\$16.90	\$14.90

Press 'n' Peel Film

This is by far the easiest way to make Printed Circuit Boards from CAD software or magazine PCB layout artwork. You simply make the PCB image by putting a Press 'n' Peel sheet of transfer film in the paper tray of a photocopier or laser printer (The sheet size is almost the same as the A4 paper tray). You then print or copy the PCB track image onto the film. Using a domestic clothes iron you press the image onto a precleaned piece of copper clad PCB. The image transfers to the copper and the image

will not etch away. Ammonium persulphate or ferric chloride are both OK. You get 5 sheets of 215 x 280mm transfer film in each pack. Full instructions are supplied.

4 Easy Steps:

- 1. Print or Copy
- 2. Iron on 3. Peel off
- 4. Etch



Cat.	Qty 1+	Qty 4+	Qty 10+
HG9980	\$46.90	\$41.90	\$36.90

Etch Your Own PC Boards Booklet

Need just one or two printed circuit boards, for a magazine project or a prototype for your latest design? It's not too hard to etch your own single sided or even double sided boards, especially if you have access to photocopier or a PC and laser printer. In this te we tell you all you need to know.

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1+	

Cat.	Qty 1+
BI8212	\$2.00

Perspex - Red

- 3mm thick
- Supplied with peel-off film



		Cat.	Qty 1+	Qty 4+	Qty 10+
Red	195 x 195mm	HM9505	\$16.90	\$14.90	\$13.90

Clear Acrylic Sheet

General purpose clear acrylic (Perspex) sheet for hobby use. Suitable for displays etc.

• Supplied with peel-off protection film



	Cat.	Qty 1+	Qty 4+	Qty 10+
195 x 195 x 3mm	HM9509	\$16.90	\$14.90	\$13.90

CONDUCTIVE COMPOUNDS

Wire Glue

A soldering iron in a jar. Wire Glue is a electrically conductive adhesive that enables you to make solder-free connections when you don't have a soldering iron handy, or can't apply heat for some reason. Hundreds of hobby, trade and electronics uses. Lead-free, cures overnight.





9ml NM2831 \$11.90 \$10.70 \$9.50		Cat.	Qty 1+	Qty 4+	Qty 10+
	9ml	NM2831	\$11.90	\$10.70	\$9.50

Conductive Carbon Grease

Lubricates and improves electrical and thermal connections between sliding surfaces, while providing protection from moisture & corrosion. Excellent for use on switches and EMI shielding applications. Industrial, trade and hobby use. 50 gram tube.

- Prevents normally closed switches from corroding in place
 Reduces make-break arcing and pitting of
- switch contact surfaces
- Improves the connection between irregular or pitted contact surfaces
- Reduces EMI noise by maintaining a continuous path between conductive surface
- Thermally stable up to 200°C Density: 2.7 g/ml
- Electrical resistivity: 117 ohms/cm



	Cat.	Qty 1+	Qty 4+	Qty 10+
50g	NA1034	\$13.90	\$12.90	\$10.90

Stainless Steel Conductive Thread 2m

A highly flexible thread made conductive by the inclusion of stainless steel strands. You can feel the extra weight that the stainless steel gives. The thread is a dark silvery grey, and is great for adding electrical elements to textiles such as fabric.

- Maximum current 500mA
- Tie onto modules and components to make a connection
- 2m length per pack



	Cat.	Qty 1+
2m	WW4100	\$9.90

Precision Conductive Ink

This is a highly conductive polymer for use in a variety of applications and is an indispensable tool for fixing damaged circuit board tracks. Apply instant traces on most surfaces (epoxy, glass, plastic, metal). Draw traces on circuit boards, repair defective traces, make jumpers and shield electronics, design prototype circuits and repair rear-window heater traces.

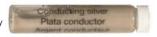
- 1mm track trace width
- 0.02 Ohm per mm resistivity

After heat curing only. Use low temperature soldering (less than 180°C/350°F) for not more than 5 seconds. Use low temperature soldering iron



Silver Conductive Varnish

This silver conductive varnish adheres well to glass, PCB material, ceramics etc. Repairs printed circuits, window antennas, window alarm loops etc. Very good conducting properties.



Approximately 0.02 - 0.1 Ohms/cm²

Cat.	Qty 1+	Qty 4+	Qty 10+
NS3030	\$17.90	\$15.90	\$14.30

Soldering Tools

Jaycar has the biggest range of soldering tools around. Types range from USB powered, low voltage, 240 powered and gas. We also have a large range of solder and accessories. See page A20 onwards to see the great range.

CLEANING / REPAIR PRODUCTS



Inox Premium Grade Machinery Grease

General-purpose synthetic grease in a handy 30gm tube size. Ideal for bearings, ball joints, chains, sprockets, O-rings, bushes & other rubber and plastic etc.

- Food grade
- High temperature, non-melt
- Highly resistant to water, salt, chemicals and drying
- Fully synthetic

	Cat.	Qty 1+	Qty 4+	Qty 10+
30g	NA1032	\$13.90	\$12.90	\$10.90

Deoxit ProGold Contact Cleaner & Rejuvenator

Simple cleaners wash away dirt, grime, and dust from your expensive equipment but are often ineffective at cleaning tough oxidation and metal

sulphide contamination. This product will not only clean, but it will help restore your equipment to its original condition, ímproving its performance.

Kit contains:

- DeoxIT power booster 7.4mlDeoxIT ProGold conditioning
- treatment 7.4ml
- 2 x brush applicators
- 4 x swabs
- Lint free cloth



(Cat.	Qty 1+	Qty 4+	Qty 10+
Kit	NS1436	\$36.90	\$33.20	\$29.50

ANTI-CORROSION

Tef-Gel Anti-Corrosion, Anti-Seizing, **Anti-Galling Syringe**

This product is far superior to a similar product we sold last year. Its main use is to prevent dissimilar metals when fastened together from corroding due to galvanic action. For example, you fasten down a stainless steel sail track slide to the metal deck of a yacht; you use this product to prevent dissimilar metal electrolytic corrosion. That's all the other product was good for. This product also stops rotating objects from seizing and prevents galling in stainless steel screw fasteners. It also protects electrical terminals/ connectors.

- Will not cold flow or dry outIs resistant to salt water and detergents
- Has an indefinite shelf life
- Contains PTFE (Teflon*) and NO (0%) volatile solvents, no silicone, or
- petroleum solvents. Nothing to evaporate
 It is dielectric (Non-electrical conducting)
- No known hazardous ingredients
- High flashpoint
- Non toxic



	Cat.	Qty 1+	Qty 4+	Qty 10+
10ml	NA1040	\$29.90	\$26.90	\$23.90

Corrosion Buster Pen

This pen-type product enables you to remove rust, spot corrosion and clean burnt contacts etc, without abrasion utilising the 20,000 tiny glass fibres at the tip of the pen. It has an amply sized body with finger indent to provide a comfortable & secure grip while the adjustable length allows for more aggressive cleaning when required.

• 120mm long x 14mm dia



ELECTROMECHANICAL, ENCLOSURES, TRANSFORMERS



ELECTROMECHANICAL:

Buzzers	A169
Circuit Protection	A150
Fans	A172
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Relays	A148
Switches	A158

ENCLOSURES:

ABS Enclosures	A178
Instrument Cases - ABS	A177
Metal Enclosures	A182
Metal Instrument Cases	A181
Plastic Enclosures	A177
Rack Systems	B251

TRANSFORMERS:

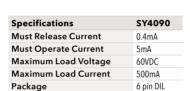
EL Core	A184
Miniature	A185
Speaker	A185
Strobe Trigger	A185
Toroidals	Δ183

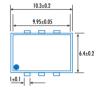
SOLID STATE RELAYS:

Solid state relays are particularly useful when only low switching currents are available, such as those presented by CMOS or TTL circuits. Optically isolated for optimum safety, these relays use solid state components rather than mechanical switches. AC types offer safe and easy switching of 230V mains.

PCB Mount Solid State DIL Relay

Able to be triggered from low currents, and a super small package. Low on resistance and very low quiescent current.





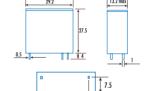


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3.3±0.3	R A
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0.5±0.1 ← 2.54±0.02	10°±5°
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/oltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5V	500mA	SY4090	\$7.90	\$7.10	\$6.30

PCB Mount Solid State Relays, Low Current

Low profile PCB mounting solid state relays with LED input status indication. Suitable for applications such as I/O interfaces and programmable logic controllers





		20 3.5
Specifications	SY4092	SY4093
Control Voltage Range	4 - 6VDC	9.6 - 14.4VDC
Max. Input Current	20mA	20mA
Load Voltage	3 - 52.8VDC	3 - 50VDC
Load Current	0.01 - 2A	0.01 - 2A

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0	SY40	93	

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SY4080

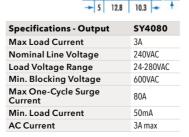
ESR2102400300

Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	2A	SY4092	\$9.90	\$8.90	\$7.90
12VDC	2A	SY4093	\$9.90	\$8.90	\$7.90

Mains Type

Voltage

3-32VDC



Current

	Control Voltage			3-32VDC		
	Control	15mA Max				
	Min. Turi	Min. Turn Off Voltage				
	Input Re	$2.2k\Omega$ min				
Cat. Qty 1+ Qty 10+ Qty 25+						
•	.at.	Qty 1+	City 10+	Qty 25+		
S	Y4080	\$29.90	\$26.90	\$23.90		

25.3

Specifications - Input

A144 ⊶

Freecall order hotline: 0800 452 922

SOLID STATE RELAYS CONTINUED

Chassis Mount Solid State Relays, High Current

Both look similar but are in fact quite different.

SY4084 40A, 240VAC TRIAC Type

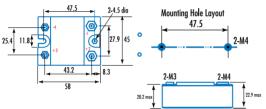
This unit has a dielectrically isolated D.C. control input that controls a 40amp TRIAC. This means that you can control AC mains up to 40A RMS. It also means that it will not control D.C. For that you need the SY4086 below.

Specifications for SY4084

- Dielectric isolation rating 4000VAC
 Opto isolated control, 4V min, 32V
- max (D.C.)
- TRIAC controlled AC out. 48-280VAC
- Built-in snubber
- RoHS compliant

SY4086 100A, 0-30VDC **MOSFET Type**

This unit has a dielectrically isolated D.C. control input to switch a MOSFET which can control loads of up to 100A @ 30VDC. It will not switch AC. To switch AC use the SY4084. NB: Mechanical details same for both units. Advantages of SY4086. Switching high current D.C. was previously accomplished by high current contactors. Contactors quickly wear out plagued by arcing of the actual contacts. There is no arcing with MOSFETS and their very low ON-resistance (in this case 3.5 milliohms) ensures little wasted energy.



Input

Schematic.

OUTPUT CIRCUIT	
Load Voltage	0-30VDC
Load Current	0.02-100A
Max On-State Resistance	0.0035Ω
Max On-State Voltage Drop	0.35V
Max Turn On Time	0.5ms
Max Turn Off Time	0.5ms
Max Surge Current	240A (10ms)
INPUT CIRCUIT	
Control Voltage	3-32VDC
Control Current	28mA max.

Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC (ONLY)	40A	SY4084	\$56.90	\$50.90	\$44.90
30VDC	100A	SY4086	\$56.90	\$50.90	\$44.90

1.0VDC

HEATSINK TO SUIT SY4084/SY4086

Using this heat sink with the SY4084/SY4086 solid state relays assures you reach the full current capacity. Solid state relays become quite hot when used in a high current application is essential. Datasheet available on our website.

• Thermal resistance - 1.1°C/W

Min Turn Off Voltage

- Dimensions: 118(W) x 110(L) x 64 (H)mm



Fast recovery diode⁴

Load

DC Output Solid State Relay

*The diode is required to prevent back EMF problems with inductive loads. The diode should be a fast recovery

type with a PIV rating greater the VDC Power Supply.

- M-

Cat.	Qty 1+	Qty 10+	Oty 25+
Heatsink to suit SY408	\$24.90	\$22.40	\$19.90



Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

Slim 5V, 12V

- Ultra slim
- 2A switching
- Photo isolation

SY4084





5VDC (SY4088)	12VDC (SY4089)
20000VAC (1 minute)	20000VAC (1 minute)
100MΩ (at 500VDC)	100MΩ (at 500VDC)
-30°C to +80°C	-30°C to +80°C
4-6 VDC	9.6 - 14.4 VDC
15mA	15mA
4V	4V
1V	1V
50 - 250VAC	50 - 250VAC
2A	2A
30A	30A
	20000VAC (1 minute) 100MΩ (at 500VDC) -30°C to +80°C 4-6 VDC 15mA 4V 1V 50 - 250VAC 2A

Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	2A	SY4088	\$11.90	\$10.90	\$9.90
12VDC	2A	SY4089	\$11.90	\$10.90	\$9.90

PANEL / CHASSIS MOUNT RELAYS

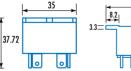
All feature rugged construction and quick connect terminals for easy installation.

24VDC or 240VAC, DPDT, 30A

Two models available. One with a nominal 240VAC coil and one with 24VDC coil.

- Contact Form: DPDT
- Contact Rating: 30A NO / 3A NC
 24V Model Coil Resistance: 350 ohm
- 240V Model Coil Resistance: 3800 ohm @50Hz
- 1/4" (6.35mm) Q.C. tabs





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Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+	
24VDC	30A	DPDT	SY4041	\$33.90	\$29.90	\$26.90	
240VAC	30A	DPDT	SY4044	\$34.90	\$30.90	\$27.90	

26.42

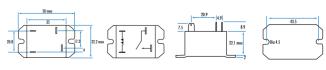
68.58

12VDC, SPST 30A

- Contact Rating: 30A/240V
 QC tab termination 4.8mm coil, 6.4mm
- Used in heavy duty applications like air conditioning, heating etc
- Coil: 12V, 120 ohm
- 1/4" (6.35mm) Q.C. tabs

See website for full specifications.



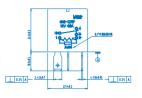


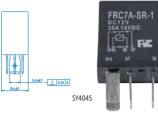
Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+	
12VDC	30A	SPST	SY4040	\$11.90	\$10.90	\$9.90	

AUTOMOTIVE RELAYS

Micro 30A Horn Relays

Extremely compact with a footprint of only 22 x 15mm, but maintaining high contact currents for automotive applications. Ideal for air horns, fog lamps or driving light installations. 30A rating on NO contacts, 20A on NC for both 12V and 24V types.





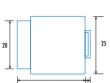
Not just for horns of course

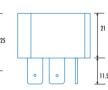
Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPST	SY4045	\$8.90	\$8.00	\$7.10
12VDC	30A	SPDT	SY4046	\$8.90	\$8.00	\$7.10
24VDC	30A	SPDT	SY4047	\$8.90	\$8.00	\$7.10

Automotive Fused Relays - 15/30A

Designed for automotive applications, these quality relays have an integrated blade fuse (fuse included) and metal mounting bracket. SY4076

- 15Å, ideal for aftermarket horns etc. SY4077 - 30Å, suits high current accessories like fog lights, driving lights etc. • QC tab termination 6.8mm (PT4507)



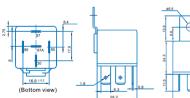


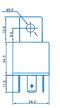


Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	15A	SPST	SY4076	\$10.90	\$9.50	\$8.50
12VDC	30A	SPST	SY4077	\$11.90	\$10.70	\$9.50

Automotive Horn Relay - 30A

Whilst designed for auto horns, this relay is ideal for any high current application i.e. alarms, ignition cutout, transmitters, car spotlights etc. Contact voltage (nom) 12VDC. Nominal coil voltage 12VDC. QC tab termination.





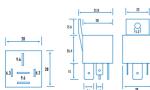


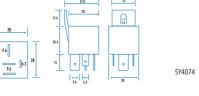
p.A148 - our PCB mount version Cat. SY4072•

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPST	SY4068	\$7.90	\$7.10	\$6.30
12VDC	30A	SPDT	SY4070	\$7.90	\$7.10	\$6.30
Base to suit			SY4069	\$6.90	\$6.20	\$5.50

Automotive Horn Relay - 60A SPDT

- Contact voltage (nom) 12VDC
- Nominal coil voltage 12VDCQC tab termination
- SPDT
- Heavy duty quick connectors required for 60A terminals use PT4717 Pkt 4



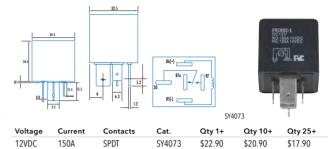




Automotive Relay - 150A SPDT

150A contacts for ultra high power applications such as multiple lights, high power audio etc, in a small package.

- Contacts: SPDT
- Contact rating: 150A Coil resistance: 50 Ω
- Operate time: 10ms
- Operational life: 100,000 cycles
- Contact resistance: $30m \Omega max$
- Coil voltage: 12VD
- Rated coil current: 240mA
- Release time: 5ms



Universal LED Flasher Relays

Specifically designed to work with replacement low current LED indicator lights which may "hyper flash" when used with your cars standard flasher relay. This high frequency flashing will burn out the globe quicker. The minimum load is negligible (0.02A). Some cars will even display a burnt out bulb indicator even though it's working fine, this unit will remedy that issue.

- Nominal voltage: 12VDC
- Operating voltage: 11VDC-15VDC
 Flashing frequency: 90 times/minute +/-10%
- Silent operation
- Dimensions: 40(H) x 28(W) x 28(L)mm

UNIVERSAL 2-PIN LED FLASHER RELAY

Switch current: 0.02A-10A

Switch current: 0.02A-20A SY4018





RELAY ACCESSORIES

Automotive Relay Base to suit Horn Relays

This is a plug in base with cable attached.

• Suits SY4068 & SY4070

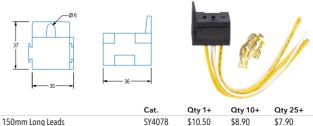
MOST RELAYS ON THIS PAGE HAVE 1/4" (6.3MM) Q.C. CONNECTORS OR LARGER.



	Cat.	Qty 1+	Qty 10+	Qty 25+
150mm Long Leads	SY4069	\$6.90	\$6.20	\$5.50

Interlocking Relay Socket with Leads

The easy and neat way to add multiple relays to your electrical system. These relay bases interlock together, can be panel mounted and take standard 5 pin automotive relays. They also come with integral flying leads as well as bare crimp terminals for customised termination.



CRADLE RELAYS

Cradle Relay - DPDT

PCB or DIN mount. Available in 12V or 24V coil.

- Contacts: 10A @ 220VAC/24VDC (resistive load)
- Contact Resistance: 50mΩ max.

12V COIL

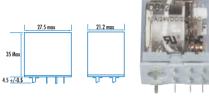
• Resistance: 160Ω

Current: 75mA

24V COIL

- Resistance: 650Ω
- Current: 37mA

Suitable Base: SY4064



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	DPDT	SY4008	\$9.90	\$8.90	\$7.90
24VDC	10A	DPDT	SY4007	\$9.90	\$8.90	\$7.90

Cradle Relay - DPDT

For heavy current switching for mains appliances eq. high power speakers.

- Contact rated at 10A 240VAC
- Coil 12VDC 160 ohms
- Suitable base: Use SY4064 cradle
- NO/NC contacts
- DPDT contacts
- Dimensions: 27(W) x 20(D) x 35(H)mm



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10		

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	DPDT	SY4065	\$9.90	\$8.90	\$7.90

Cradle Relay - 4PDT

- Rated Voltage: 12VDC
- Coil Resistance: 180Ω
 Contact Rating: 5A NO/NC contacts
 27(W) x 21(D) x 35(H)mm excl pins
- Suitable base: SY4004





p.A117 - Power Solenoids



DIN Rail Mount Relay Socket

DIN rail mounting base for SY4009. Also has 4mm holes so can be screw mounted to a

• Dimensions: 71(L) x 29(W) x 30(H)mm



	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits SY4009	SY4004	\$11.90	\$10.90	\$9.90

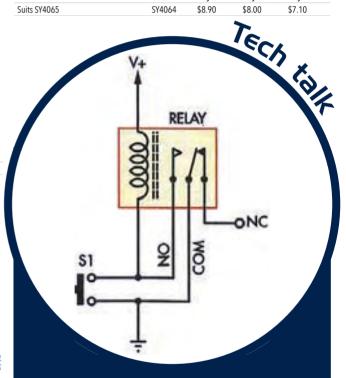
Cradle Relay Base

Quality DIN rail mount with screw terminals

- Suits SY4065
- Dimensions: 72(W) x 29(D) x 30(H)mm



	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits SY4065	SY4064	\$8.90	\$8.00	\$7.10



CONVERTING TO A LATCHING RELAY

How to turn an ordinary relay into latching type!

Sometimes you want to energise a relay to stay "on" instead of only momentarily staying on. For example you may want to make an electric motor, or a solenoid to stay on for some time.

You can do this with the circuit shown.

The key to this is a momentary push button switch (there are many in this catalogue.)

Pressing the push button switch (S1) activates the relay and closes the N O (Normally Open) and COM (Common) contacts. These contacts form a parallel connection across S1. Even if S1 is now opened, the relay will stay ON, or "latched."

To turn the relay off, you must interrupt power to the coil, in other words, switch V+ off, even momentarily. Even if you switch V+ on again, the relay will remain off, until you push S1 again.

Note: While the relay is energized, it will continue to draw coil current. True mechanical latching relays do not do this.

STANDARD COIL / CONTACT RELAYS

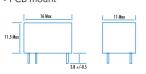
Contacts

DIL Type - 6V 1A Mini

- Extra low profile. 6VDC bobbin
- 56 ohm coil resistance
 1A / 125VAC
- PCB mount

Voltage

6VDC



• Contact rating: 1 Amp

• Coil resistance 720 ohm

SPDT

• Dimensions: 15 x 11 x 11(H)mm



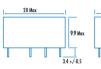
DIL Type - 12V 5A Mini

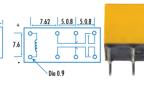
Current

- 12 volt DPDT relay

1A

- 12VOC coil (polarised)
 Max switching power 60W
 Dimensions: 20 x 10 x 10(H)mm
- High sensitivity 200mW pickup power





• Coil current - 30mA

• Contact rating: 1 Amp

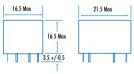
• 125VA PCB mount

Note: Coil is polarised

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	DPDT	SY4059	\$11.90	\$10.70	\$9.50

12V 1A DPDT

- Rated voltage 12VDC
- Coil resistance 400 ohm
- Dimensions: 21(W) x 16(D) x 15(H)mm





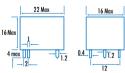


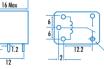
Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	1A	DPDT	SY4061	\$7.30	\$6.55	\$5.80

12V 10A SPDT

- Rated voltage 12VDC
- Coil resistance 400 ohm
- Power consumption: 360mW
- NO/NC contacts
- Coil current: 30mA
- Contact rating: 10 Amp
- Maximum switching current: 10A(AC) & 5A(DC)

•	Dimensions:
	18(W) x 15(D) x 14(H)mm



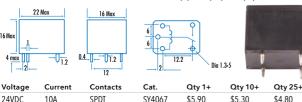


Dia 1.3-5	41

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	SPDT	SY4066	\$5.90	\$5.30	\$4.80

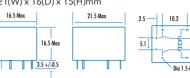
24V 10A SPDT

- Rated voltage: 24VDC
- Coil resistance: 1,600 ohm
- Power consumption: 360mW
- NO/NC contacts
- Coil current: 15mA
- Contact rating: 10A
 - Max switching current: 10A(AC) & 5Ă(DC)
 - Dimensions:
 - 22(L) x 16(W) x 16(D)mm



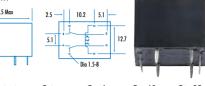
12V 5A DPDT

- Extra heavy duty mini relay
- Coil current 30mA
- Contact rating 5 Amp Dimensions
- 21(W) x 16(D) x 15(H)mm



,	Rated	voltage	12VDC	

- Coil resistance 400 ohm
- Power consumption 360mW
- NO/NC contacts

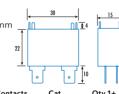


					•		
Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+	
12VDC	5A	DPDT	SY4062	\$7.90	\$7.20	\$6.50	

12V 20A SPST PCB Mount Relay

PCB mounting 12V relay with QC lug terminals mounted conveniently on top of case. What a good idea!

- Coil voltage: 12VDC
 Coil resistance: 275Ω
- Contact current: 20A@24VDC max
- Coil current: 44mA
- Contacts: SPST
- Dimensions: 30(L) x 22(W) x 15(H)mm



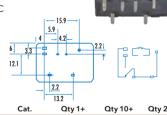


Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	20A	SPST	SY4029	\$10.90	\$9.50	\$8.50

12V 30A SPDT - Standard Size (Horn Relay)

PCB version of standard 30A horn type relay. Whilst designed for auto horns, this relay is ideal for any high current application i.e. burglar alarms, ignition cutout, transmitters, car spotlights

- Contact current (max) 40A
- Nominal coil voltage 12VDC
- Contact voltage (nom) 12VDC
- PC Pin termination



VI	
Voltage Current Contacts Cat. Qty 1+ Qty 10+ Q	նty 25+
12VDC 30A SPDT SY4072 \$8.90 \$7.90 \$6	6.90

12V 2A DPDT Latching

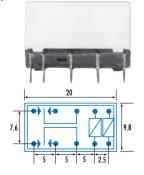
DIP style - will plug into 16 pin IC socket. Low profile. Highly sensitive - 180mW nominal power consumption.

Specifications Coil

- 2 coil latching 12VDCMinimum set and reset power 180mW
- Nominal set and reset power 360mW

Specifications Contact

- Max switching power 60W, 125VA
- Max switching voltage 220VDC, 250VAC
- Max carrying current 2A @ 30VDC, 1A @ 120VAC
- Dimensions: 20(W) x 10(D) x 10(H)mm



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	2A	DPDT	SY4060	\$15.90	\$13.70	\$12.30

Are you in the trade?

For professionals engaged in electronics & construction-related industries.



RFI ΔVS

SPECIAL PC MOUNT RELAYS

Special PC Mount

Silver alloy contacts

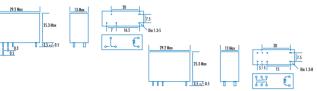
• Telecoms grade

SPDT - 12/24VDC

- Coil 270 ohm 12VDC SY4050
 Coil 1100 ohm 24VDC SY4051
- 10A @ 30VDC or 10A @ 240VAC contact rating

DPDT - 12/24VDC

- Coil 270 ohm- 12VDC SY4052
 Coil 1100 ohm- 24VDC SY4053
 2 x 5A @ 30VDC or 2 x 5A@240VAC contact rating
- Dimensions: 29(W) x 12(D) x 25(H)mm



SY4050

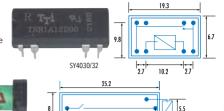
Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	SPDT	SY4050	\$9.90	\$8.50	\$7.50
24VDC	10A	SPDT	SY4051	\$11.90	\$10.90	\$9.50
12VDC	5A	DPDT	SY4052	\$10.90	\$9.50	\$8.50
24VDC	5A	DPDT	SY4053	\$11.90	\$10.70	\$9.50

RELAYS - DIP

Reed Relays

Reed relays are highly sensitive and reliable. SY4030/32 fit a 14 pin IC socket. Both types are SPST, Normally Open.

SY4036/38



1		1 Z1.4	'3'	
Specifications	SY4030	SY4032	SY4036	SY4038
Coil Resistance	500Ω	1000Ω	500Ω	1050Ω
Nominal Voltage	5V	12V	5V	12V
Rated Current	10mA	12mA	20mA	11.4mA
Pickup Voltage	3.75VDC	9.0VDC	3.5VDC	8.4VDC
Dropout Voltage	0.8VDC	1.0VDC	0.5VDC	1.2VDC
Contact Rating	0.5A	0.5A	1A	1A

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	10mA	SPST	SY4030	\$5.90	\$4.90	\$4.40
12VDC	12mA	SPST	SY4032	\$5.90	\$4.90	\$4.40
5VDC	20mA	SPST	SY4036	\$4.90	\$4.10	\$3.70
12VDC	11.4mA	SPST	SY4038	\$4.90	\$4.10	\$3.70

REMOTE CONTROL RELAYS

Multi Channel Remote Control Relay Boards

Add remote control functions to a new project or existing installation with these handy remote control relay boards. Available with 2 or 4 channels, each output relay is controlled by a separate button on the key fob controller. Each channel can be set to momentary or latching mode allowing you to customise the setup to suit your application. Operating on the robust 433MHz band the key fob remotes work over distances up to 40m and

feature rolling code transmitting for added security.

- Selectable momentary or latching mode for each channel
- Transmission frequency: 433MHz
- Transmission range: 40m max
- Operating Voltage: 12VDC
- Relay contact rating: 28VDC 10A max / 250VAC 5A max

188855

2 CHANNEL REMOTE CONTROL RELAY BOARD

- Current draw: 50mA
- Board dimensions: 85(L) x 61(W) x 20(H)mm
- Remote dimensions: 51(L) x 34(W) x 13(D)mm



SPARE 2 CHANNEL KEY FOB CONTROLLER

4 CHANNEL REMOTE CONTROL RELAY BOARD

- Current draw: 80mA
- Board dimensions: 90(L) x 73(W) x 20(H)mm
- Remote dimensions: 63(L) x 40(W) x 13(D)mm



SPARE 4 CHANNEL KEY FOB CONTROLLER

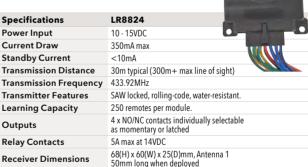
Cat 1R8858



	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Channel RC Relay Board	LR8855	\$64.90	\$57.90	\$51.90
2 Channel Keyfob	LR8856	\$21.90	\$19.90	\$17.90
4 Channel RC Relay Board	LR8857	\$89.90	\$80.90	\$71.90
4 Channel Keyfob	LR8858	\$26.90	\$23.90	\$21.90

Wireless 4 Ch Relay Receiver (12V Nominal Operation)

This unit, which can be operated with the 2 x remotes (supplied), will control up to 4 x relays in Normally Closed or Normally Open configuration as either Momentary or Latched operation (the relays are built-in to the receiver). The relay contacts are rated at 5A at 14VDC. If higher voltage or higher power (or both) switching is needed, simply get these relays to operate a higher power relay. Strictly speaking for simple control applications, the LR8824 is all you need.



ADDITIONAL WIRELESS RELAY TRANSMITTER UNIT

Capable of controlling the LR8824 with up to 4 control voltage inputs. You could, for example, have an input on channel 1, which would be from say could, for example, have an input of channel 1, which would be from say a micro-switch connected to a window or a gate in a shed or barn. The LR8819 will transmit a signal (100m minimum, up to 400m line-of-sight) to the LR8824 to raise an alarm. It will also accept USB type voltage signals etc. It will accept positive or negative voltage commands (it will operate without the remote controls). Essential for fixed system monitoring.

• Unit measures 68(H) x 60(W) x 25(D)mm



WA	RR	ANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless 4 Channel Relay Receiver	LR8824	\$119.00	\$106.95	\$94.95
Additional Wireless Relay Transmitter	LR8819	\$49.90	\$44.90	\$39.90
Spare Remote to suit LR8824	LR8829	\$29.90	\$26.90	\$23.70

M205 FUSES - 20 X 5MM

M205 Fast Blow SF2148 100mA Cat. SF2148 Cat SF2158 4Α Cat SF2164 1A 160mA Cat. SF2152 1.25A Cat. SF2159 Cat. SF2166 200mA Cat. SF2153 Cat SF2161 Cat SF2167 1.6A 6.5A 250mA Cat. SF2154 2A Cat. SF2160 8A NEW Cat. SF2165 315mA Cat. SF2155 2.5A Cat. SF2169 10A Cat. SF2168 500mA Cat. SF2156 Cat. SF2162 3A 800mA Cat. SF2157 Cat. SF2163

Quantity breaks for one type only.

Cat.	Qty I+	City 10+	Qty 25+
All Types / Each	\$0.85	\$0.68	\$0.55

M205 Slow Blow

Slow blow M205 size glass fuses.

Rated voltage 250VAC

	 Rated voita 	ige 250VAC				
• Dimensions 20(L) x 5(Dia)mm SF21						
	500mA	Cat. SF2170	2A	Cat. SF2174	4A	Cat. SF2175
	1A	Cat. SF2172	3A	Cat. SF2176	5A	Cat. SF2178
	1.5A	Cat. SF2173	3.15A	Cat. SF2177	10A	Cat. SF2179
			Cat.	Qty 1+	Qty 10+	Qty 25+

\$1.65

All Types / Each

Quantity breaks for one type only.

M205 Ceramic Fast Blow

These fuses are used in microwave ovens and precision equipment. They are fast acting and rapidly respond to a fault condition. They are sand filled and their interrupting capacity is 1500A at 240VAC.



\$1.05

\$1.30

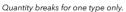
1.0A	Cat. SF2104	3.15A	Cat. SF2105	6.3A	Cat. SF2110
1.6A	Cat. SF2106	4.0A	Cat. SF2108	8A	Cat. SF2112
2.5A	Cat SF2107	5.0A	Cat SF2109	10A	Cat SE2114

Quantity breaks for one type only.

Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$1.70	\$1.35	\$1.10

M205 Ceramic Slow Blow

1.0A	Cat. SF2115	4A	Cat. SF2118
1.6A	Cat. SF2116	6.3A	Cat. SF2119
2.5A	Cat. SF2117	A8	Cat. SF2121



Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$2.10	\$1.65	\$1.35

M205 Fuse Packs 40 FUSES

The economical way to buy fuses.

Consists of: 5 x 500mA 10 x 1A 10 x 2A 5 x 3A 5 x 5A

5 x 10A



Cat.	Qty 1+	Qty 10+	Qty 25+
SF2242	\$16.90	\$14.90	\$13.90

What does "AG" mean? Automotive Glass

3AG FUSES - 11/4" X 1/4"

3AG Fast Blow (32 x 6.35mm)



Quantity breaks for one type only.

 Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$0.85	\$0.68	\$0.55

3AG Ceramic Fast Blow

These fuses are used in microwave ovens and precision equipment. They are fast acting and rapidly respond to a fault condition. They are sand filled and their interrupting capacity is 1500A at 240VAC.



7A	Cat. SF2120	8A	Cat. SF2122	10A	Cat. SF2124
		Cat.	Qty 1+	Qty 10+	Qty 25+
		All Types / Each	n \$1.70	\$1.35	\$1.10

3AG Slow Blow

Slow blow 3AG size glass fuses. Rated voltage 250VAC. Dimensions: 30(L) x 6(Dia)mm



1A	Cat. SF2226	3A	Cat. SF2230	7.5A	Cat. SF2233
1.5A	Cat. SF2227	4A	Cat. SF2231	10A	Cat. SF2234
2A	Cat. SF2228	5A	Cat. SF2232		

Quantity breaks for one type only.

Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$1.65	\$1.30	\$1.05

3AG Fuse Packs 40 FUSES

The economical way to buy fuses.

tuses.

Consists of: $4 \times 500 \text{mA}$

4 x 500 8 x 1A

6 x 1.5A

4 x 2A

6 x 3A

4 x 5A 4 x 7.5A

4 x 7.5A 4 x 10A



Cat.	Qty 1+	Qty 10+	Qty 25+
SF2240	\$16.90	\$14.90	\$13.90

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SPECIAL APPLICATION FUSES

GOLD 5AG FUSES - 3/8" X 1/2"

Gold Fuseholder With Mounting Bracket

Gold contacts and will accept both 8GA & 4GA cable. A mounting bracket is incorporated.

Length 80mm - accepts 5AG fuses.



AMP-KING

Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
5AG	SZ2060	\$14.90	\$13.90	\$11.90

5AG Gold Fuses

These fuses suit our fuseholders. Gold plated ends - and the inside conductor is also gold.

• Fuse size 38(L) x 10(Dia)mm



AMP-KING

Current	Cat.	Qty 1+	Qty 4+	Qty 10+
20A	SF1970	\$2.80	\$2.50	\$2.20
30A	SF1972	\$2.80	\$2.50	\$2.20
40A	SF1974	\$2.80	\$2.50	\$2.20
50A	SF1976	\$2.80	\$2.50	\$2.20
60A	SF1978	\$2.80	\$2.50	\$2.20

WAFER FUSES & HOLDERS

GOLD ANL WAFER FUSES

These wafer fuses feature gold finish screw-down contacts for maximum current transfer and conductivity and are designed for really high current applications such as for car audio amplifiers, etc.

- Use with our SZ2075 Inline Wafer Fuseholder
- 5 current ratings available



AMP-KING

Current	Cat.	Qty 1+	Qty 4+	Qty 10+
80A	SF1990	\$8.90	\$8.00	\$7.10
100A	SF1992	\$8.90	\$8.00	\$7.10
150A	SF1995	\$8.90	\$8.00	\$7.10
200A	SF1997	\$8.90	\$8.00	\$7.10
250A	SF1999	\$8.90	\$8.00	\$7.10

ANL In-line Fuse Holder

A solid brass ANL inline fuse holder that is nickel plated. A great looking and functional fuse holder that is suitable for high end car audio installations.

• Dimensions: 95(L) x 50(W) x 36(H)mm



Cat.	Qty 1+	Qty 4+	Qty 10+
SZ2078	\$19.90	\$17.90	\$15.90

FUSE WIRE

Fuse Wire

Includes 8 amp for lights and 15 amp for power. An essential item to store in the fuse box of older homes. Have it there when you need it.





	Cat.	Qty 1+	Qty 10+	Qty 25+
Fuse Wire	SZ2005	\$4.50	\$4.05	\$3.60

CERAMIC FUSES - 25 X 6MM

Ceramic Fuse 25 x 6mm Fast Blow

The range of BS1362 compliant fuses is designed to suit fused British power plugs. There's lots of other equipment that won't take an M205 or 3AG fuse, and this 25mm fuse lies in the middle of the range.

- Ceramic fuse with nickel-plated end caps
- 6000A interrupting capacity
- Four ratings available: 3A, 5A, 10A and 13A





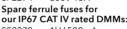
Current	Cat.	Qty 1 +	Qty 10+	Qty 25+
3A	SF2100	\$1.70	\$1.50	\$1.30
5A	SF2101	\$1.70	\$1.50	\$1.30
10A	SF2102	\$1.70	\$1.50	\$1.30
13A	SF2103	\$1.70	\$1.50	\$1.30

DMM FUSES - CERAMIC

Fast Acting Cartridge Fuses

As used in multimeters. Fast acting fuse designed for use in circuits with high AC fault current capacity. Listed by Underwriters Laboratories and certified by CSA.

SF2276 600V 1A SF2272 500V 10A SF2274 600V 15A



SF2278 1kV 500mA SF2279 1kV 800mA SF2277 1kV 10A SF2269 600V 500mA







SF2277

Limite



SF2274 SF2279

Suite	Fluka	DMMs

Size(mm)	Cat.	Qty 1+	Qty 3+	Qty 6+
20 x 5.0	SF2269	\$4.80	\$4.30	\$3.80
32 x 6.3	SF2279	\$11.90	\$10.70	\$9.50
32 x 6.3	SF2278	\$11.90	\$10.70	\$9.50
32 x 6	SF2272	\$11.90	\$10.70	\$9.50
35 x 10	SF2276	\$11.90	\$10.90	\$9.90
38 x 10	SF2274	\$21.90	\$19.30	\$16.90
38 x 10	SF2277	\$17.90	\$15.90	\$14.30

3AG FUSE BLOCKS

6 Way 3AG Fuse Block with Blown Indicators

Individual LEDs illuminate when fuses are blown so you can check things at a glance. The clear cover keeps everything protected and 60 stickers are included for common applications to assist with identification. Holds standard 3AG fuses.



Specificat	ions	SZ2021			
Operating	Voltage	32VDC Max			
Max Fuse C	Current	30A			
Max Block	Current	100A cumulative)		
Dimension	s	129(H) x 91(W)n	nm		
		Cat.	Qty 1+	Qty 4+	Qty 10+
6 Way	3AG	SZ20	21 \$52.90	\$41.90	\$33.90

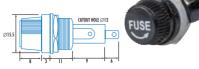
FUSE DI	MENSIONS	
M205	3AG	5AG
20	32	6.35 10

\$1.40

PANEL FUSE HOLDERS

M205 - Low Volt Only

- Takes M205 fuses (20 x 5mm)
- Recommended for low voltage DC side circuits only
- Panel hole 13mm
- 6.3A 240V max



	Cat.	Qty 1+	Qty 10+	Qty 25+	
M205	SZ2030	\$2.50	\$2.00	\$1.60	

M205 - Safe

Fuse retainer is released by simply depressing catch by inserting a screwdriver or any similar tool or object into the small rectangular hole on top of the fuseholder.

• Panel hole 12mm

• 6.3A 240V max



M205 - Very Safe

6.3A 250V.

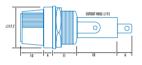
- Panel hole 11mm
- Fits M205 size fuses
- Screwdriver cover remova
- Fingers cannot touch met inside

al :al	5.9 2 - -3.8 -	8			
	Cat.	Qty 1+	Qty 10+	Qty 25+	
	572028	¢3.30	\$2.60	\$2.10	

3AG - Low Volt Only

10A 250V.

- Accepts 3AG fusesPanel hole 15mm
- Recommended for low voltage or DC side circuits only



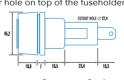


Cat.	Qty 1+	Qty 10+	Qty 25+
SZ2020	\$2.50	\$2.00	\$1.60

3AG - Safe

Fuse retainer is released by simply depressing catch by inserting a screwdriver or any similar tool or object in to the small rectangular hole on top of the fuseholder.

- Panel hole 15mm
- 10A 250V



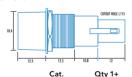


Cat.	Qty 1+	Qty 10+	Qty 25+
SZ2036	\$3.50	\$2.90	\$2.60

3AG - Very Safe

3AG 10 amp 240V chassis mount (32 x 6.35 mm)

- Screwdriver cover removal
- Fingers cannot
- touch metal inside • 10A 250V



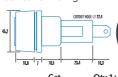
SZ2025



5AG - Low Volt Only

Panel mounting fuse holder, screw cap style. Suits 5AG sized fuses up to 30A current rating.

· Low voltage only





\$3.10

Qty 25+

\$2.70

5Z2029 \$6.90 \$5.50 \$4.45	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ2029	\$6.90	\$5.50	\$4.45

INLINE FUSE HOLDERS

Plastic in-line type.

- As used on car radios, CB, etc Takes 3AG fuses
- Low volt DC only

Cat.	Qty 1 +	Qty 10+	Qty 25+

\$1.75

3AG Moisture proof Fuseholder

Two rubber parts push together over the fuse to keep moisture out. Ideal for boats, cars etc.

S72015

- Cable needs to be soldered on, crimped to end parts.
- Could be made virtually waterproof with some silicone sealant
- Low volt DC only / 10A max

,	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ2014	\$3.30	\$2.60	\$2.10

\$2.20

3AG 20A High Current

If you want to fuse something higher than 5 amp you will need this holder.

- Super strong plastic holder Supplied with cable loop
- Simply cut and join to existing cables
- Low volt DC

DC only	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ2016	\$4.20	\$3.35	\$2.70

5AG 60 Amp

For high-powered car sound systems.

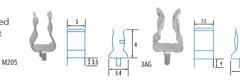
- Accepts 5AG fuse
- 80(L) x 19(D)mm
- Supplied with a small length of cable simply cut and join in line
- Low volt DC only



PCB MOUNT FUSE HOLDERS

Fuse Clips

- Nickel plated
- PCB mount



	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
M205	8	SZ2018	\$3.30	\$2.60	\$2.10
M205	100	SZ2019	\$18.90	\$14.90	\$11.90
3AG	8	SZ2022	\$3.30	\$2.60	\$2.10
3AG	100	SZ2023	\$18.90	\$14.90	\$11.90

M205 PCB Mount Fuse Holder

PCB mounting M205 fuse holder. Supplied with screw cover to hold fuse in place.

• Max Fuse: 6.3A @ 250VAC



MOUNT	Cat.	Qty 1+	Qty 10+	Qty 25+
M205 Vertical	SZ2038	\$4.20	\$3.35	\$2.70
M205 Horizontal	SZ2039	\$4.20	\$3.35	\$2.70



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CIRCUIT PROTECTION

BLADE FUSE HOLDERS

30A In-Line Blade Fuse Holder

Accepts standard car type blade fuses. Supplied with heavy duty cable in a loop. Simply cut and join to existing cable.

· Low volt DC only

Туре	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	SZ2040	\$4.50	\$3.60	\$2.90

30A Panel Mount Blade Fuse Holders

Panel mount for auto or marine applications. Takes standard blade fuses, rated for 12VDC 30A max.

• Cover included

• Pack of 2

• rack or z					
Туре	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	2	\$72046	\$6.90	\$5.50	\$4.45

30A In-Line Blade Fuse Holder with Failure Lamp -Water Resistant

These accept ordinary blade fuses and have an integrated lamp that will light up when the fuse blows, making it easy to find the offending fuse. This is especially useful if the fuse is in a difficult or crowded location. They are supplied with 110mm leads and available to suit standard blade and mini-blade fuses.



• 30A max rating

• Ideal for circuits up to 32VDC

Туре	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	SZ2042	\$5.90	\$5.20	\$4.70
Mini Blade	SZ2043	\$6.90	\$5.50	\$4.45

30A Blade Fuse Holder with Screw Terminals

This blade fuse holder with in-built screw terminals provides a simple wiring solution to situations where circuit protection is required.

• Current: 30A maximum

• Dimensions: 35(L) x 32(W) x 6(D)mm

Туре		Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	30Δ	\$72044	\$7.90	\$6.30	\$5.10

20A Self Crimping Blade Fuse Holder Pack

These are very simple blade fuse holders to install. The self crimping feature is easy to use and saves on installation time. No wire stripping or twisting required. No special tool required; just push in the wire and squeeze.

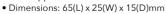


Voltage Rating 32VDCCurrent rating 20A

Туре			Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	20A	Pack of 5	SZ2049	\$5.30	\$4.75	\$4.20

30A Waterproof Blade Fuse Holder with Long Transparent Cover

Quality transparent waterproof blade fuse holder. They are long enough to accept the circuit breaker blade fuse replacement models. The transparent cover allows you to inspect if a manual c/b has tripped, or able to see if an LED fuse has illuminated. This fuse holder provides extra protection against water and dust, ideal for marine applications.



Type			Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	30A	Waterproof	SZ2047	\$8.90	\$7.10	\$5.75

30A Stackable Blade Fuse Holder (In-Line Style)

These fuseholders accept standard blade fuses. They slide together if more than one is required, so you could have a bank of these mounted in your car. They have a cap over the front which makes them look very neat and tidy.



• Handle 30 amps.

Supplied with a wire loop - can be cut to suit

Low volt DC only

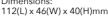
• Dimensions: 41(L) x 24(H) x 10(W)mm

Туре		Cat.	Qty 1+	Qty 10+	Qty 25+	
Standard	30A	SZ2045	\$5.60	\$4.45	\$3.60	

6 Way Automotive Fuse Box

Fits six standard car blade fuses. Fibreglass reinforced nylon base with splashproof polycarbonate cover

- 32VDC max
- 15A/circuit max
- 45A/block max
 6.3mm QC terminals
- Dimensions:





Туре		Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	6 Way	SZ2002	\$16.90	\$14.90	\$13.90

6 & 10 Way Blade Fuse Blocks

Convenient fuse blocks with integrated "fuse blown" indicator LEDs. The clear plastic cover allows you to quickly fault-find without disturbing your wiring. Includes quality bolt-down output connections for eye-terminals. Suitable for use in 12-24V systems, 30A max per fuse channel. Input cable up to 4-gauge. Uses standard automotive blade fuses, and includes a handy sheet of common labels, to make identification of connections even easier.

- Red LED "blown fuse" indicators
- Heavy duty bolt or convenient spade terminals
- Clear fuse cover



	Dimensions	Cat.	Qty 1+	Qty 10+	Qty 25+
6 Way Screw	85(W) x 70(D) x 37(H)mm	SZ2095	\$24.90	\$22.90	\$19.90
6 Way Spade	90(W) x 70(D) x 40(H)mm	SZ2096	\$24.90	\$22.90	\$19.90
10 Way Screw	100(D) x 85(W) x 37(H)mm	SZ2097	\$29.90	\$26.90	\$23.90
10 Way Spade	100(D) x 85(W) x 38(H)mm	SZ2098	\$29.90	\$26.90	\$23.90

Fuse Blocks with Bus Bar

These versatile fuse blocks provides fused distribution of your positive terminals, as well as distribution for the negative wires. This is especially handy in a boat or caravan which may not have a chassisground type system. Each fuse output accepts up to 30A, up to 100A combined, with handy fuse-blown indication. Fuses not included, uses standard automotive fuses.

- Up to 30A per output
- Red LED blown fuse indication
- Negative bus bar

SZ2031



	Cat.	Qty 1+	Qty 5+	Qty 10+
6 Way	SZ2031	\$33.90	\$29.90	\$26.90
12 Way	SZ2032	\$45.90	\$40.90	\$35.90

Product Data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!



\$72098

572095

AUTOMOTIVE BLADE FUSES

Mini Blade Fuses

They look similar to the standard car blade fuses, except they are smaller. Used in new Holden Commodores, Falcons & more.

Quantity breaks for one type only



Current	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
2A	Grey	SF1909	\$1.40	\$1.10	\$0.90
3A	Pink	SF1910	\$1.40	\$1.10	\$0.90
5A	Orange	SF1912	\$1.40	\$1.10	\$0.90
7.5A	Brown	SF1913	\$1.40	\$1.10	\$0.90
10A	Red	SF1914	\$1.40	\$1.10	\$0.90
15A	Blue	SF1915	\$1.40	\$1.10	\$0.90
20A	Yellow	SF1916	\$1.40	\$1.10	\$0.90
25A	Clear	SF1917	\$1.40	\$1.10	\$0.90

Standard Blade Fuses

Quantity breaks for one type only



Current	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
1A	Black	SF2126	\$1.25	\$1.00	\$0.80
2A	Grey	SF2127	\$1.25	\$1.00	\$0.80
3A	Pink	SF2128	\$1.25	\$1.00	\$0.80
5A	Orange	SF2130	\$1.25	\$1.00	\$0.80
7.5A	Brown	SF2132	\$1.25	\$1.00	\$0.80
10A	Red	SF2134	\$1.25	\$1.00	\$0.80
15A	Blue	SF2136	\$1.25	\$1.00	\$0.80
20A	Yellow	SF2138	\$1.25	\$1.00	\$0.80
25A	Clear	SF2137	\$1.25	\$1.00	\$0.80
30A	Green	SF2139	\$1.25	\$1.00	\$0.80
35A	Purple	SF2143	\$1.25	\$1.00	\$0.80
40A	Orange	SF2141	\$1.25	\$1.00	\$0.80

AUTOMOTIVE FUSE PACKS

Automotive Fuse Pack

This kit contains around 120 standard size automotive fuses housed in a 6 compartment storage box. 20 x 5A, 10A, 15A, 20A, 25A & 30A fuses are included.



Cat.	Qty 1+	Qty 10+	Qty 25+
SF2142	\$29.90	\$26.90	\$23.90

Micro Blade Fuses - 10 Pack

Micro-blade fuses to suit newer model cars. The pack contains one each of 5, 7.5, 25, 30A and two each of 10, 15, 20A.



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Our staff offer friendly and helpful service. We're here to help.

BLADE FUSES WITH FAILURE LAMP

Not your ordinary blade fuse, these have an integrated lamp which illuminates the moment the fuse blows. This makes finding that blown fuse a cinch, especially when the fuse is in a hard to get location, like under the car dashboard. They don't cost much either, so they are a very worthwhile investment

Mini Blade Fuses with Lamp

Quantity breaks for one type only

- Ideal for circuits up to 32VDC
- 19(H) x 10.8(L) x 4(W)mm approx



Current	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
3A	Pink	SF5070	\$1.85	\$1.45	\$1.20
5A	Orange	SF5072	\$1.85	\$1.45	\$1.20
7.5A	Brown	SF5074	\$1.85	\$1.45	\$1.20
10A	Red	SF5076	\$1.85	\$1.45	\$1.20
15A	Blue	SF5078	\$1.85	\$1.45	\$1.20
20A	Yellow	SF5080	\$1.85	\$1.45	\$1.20
25A	Clear	SF5082	\$1.85	\$1.45	\$1.20
30A	Green	SF5084	\$1.85	\$1.45	\$1.20
5-30A	Pkt 6	SF5085	\$8.90	\$7.90	\$6.90

Standard Blade Fuses with Lamp

 Dimensions: 20.6(H) x 14.4(L) x 5(W)mm approx



Integ	rated	lamn
IIIICEG	lateu	Iailip

Current	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
3A	Pink	SF5020	\$1.65	\$1.30	\$1.05
5A	Orange	SF5022	\$1.65	\$1.30	\$1.05
10A	Red	SF5026	\$1.65	\$1.30	\$1.05
15A	Blue	SF5028	\$1.65	\$1.30	\$1.05
20A	Yellow	SF5030	\$1.65	\$1.30	\$1.05
30A	Green	SF5034	\$1.65	\$1.30	\$1.05
5-30A	Pkt 6	SF5035	\$7.90	\$7.20	\$6.50

WIRE TAPPED BLADE FUSES

Double Blade Fuse Socket Wire Tap

If you've ever wanted to install 12VDC devices near or around your dash but have been put off by the need to manually install new wiring and run it into your engine bay this is a great solution. Simply plug the fuse into a socket in your fusebox and you'll have an instant 12VDC power source. A great way to power headrest monitors, extra internal car lighting, gauges, and more. Outputs to a female bullet crimp

Available in standard, mini and micro blade fuse models.

connector.



	Cat.	Qty 1+	Qty 10+	Qty 25+
Double Blade Fuse Socket	SF5115	\$6.90	\$5.50	\$4.45
Double Mini Blade Fuse Socket	SF5125	\$6.90	\$5.50	\$4.45
Double Micro Blade Fuse Socket NEW	SF5130	\$6.90	\$5.50	\$4.45

FUSE PULLING TOOL

Blade & Mini Blade Pulling Tool

These handy fuse pullers make easy work of exchanging blown fuses. The device is suitable for both micro and mini blade fuses.

• Dimensions: 63(L) x 20(W) x 5(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+	
Fuse Puller	TH1973	\$3.40	\$3.05	\$2.70	

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CIRCUIT BREAKERS - BLADE FUSE SIZE

A blade fuse that doesn't need replacing! This range of mini and standard A blade fuse that doesn't freed replacing; mis range or mini size Blade circuit breakers is designed to directly replace standard or mini blade fuses. No need to fumble around in the dark looking for the blown fuse or to dig around in the toolbox for a suitable replacement. Choose between manual or automatic reset types. The manual type suit 12V-24V systems and trip once the current is exceeded, and allow you to fault find the circuit before resetting. The auto reset type suits 12V systems and will re-establish power to the circuit once the current returns to normal levels. Available in Mini or Standard size, and come in similar colour coding to standard blade fuses.

Mini Blade Circuit Breakers -Manual Reset

- Voltage: Circuits up to 28VDC
 Body dimensions: 25(L) x 12.5(W) x
- 7(D)mm (excludes 1mm reset button)
- Total length including blades: 35mm (excludes 1mm reset button)



Current	Colour	Type	Cat.	Qty 1 +	Qty 10+	Qty 25+	
5A	Tan	Manual	SF2352	\$7.90	\$7.10	\$6.30	
10A	Red	Manual	SF2354	\$7.90	\$7.10	\$6.30	
15A	Blue	Manual	SF2355	\$7.90	\$7.10	\$6.30	
20A	Yellow	Manual	SF2356	\$7.90	\$7.10	\$6.30	

Mini Blade Circuit Breakers -**Auto Reset**

- Voltage: Circuits up to 14VDC
- Body dimensions: 25(L) x 12.5(W) x 6(D)mm
- Total length including blades: 35mm



Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Tan	Auto	SF2342	\$7.90	\$7.10	\$6.30
10A	Red	Auto	SF2344	\$7.90	\$7.10	\$6.30
15A	Blue	Auto	SF2345	\$7.90	\$7.10	\$6.30
20A	Yellow	Auto	SF2346	\$7.90	\$7.10	\$6.30

Standard Blade Circuit Breakers -Manual Reset

- Voltage: Circuits up to 28VDC
- Body dimensions: 24(L) x 20(W) x 6(D)mm (excludes 1mm reset button)
- Total length including blades: 31mm (excludes 1mm reset)



Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Lt. Brown	Manual	SF2330	\$7.90	\$7.10	\$6.30
7.5A	Brown	Manual	SF2331	\$7.90	\$7.10	\$6.30
10A	Red	Manual	SF2333	\$7.90	\$7.10	\$6.30
15A	Blue	Manual	SF2334	\$7.90	\$7.10	\$6.30
20A	Yellow	Manual	SF2335	\$7.90	\$7.10	\$6.30
25A	White	Manual	SF2336	\$7.90	\$7.10	\$6.30
30A	Green	Manual	SF2337	\$7.90	\$7.10	\$6.30

Standard Blade Circuit Breakers -Auto Reset

- Voltage: Circuits up to 14VDC
- Body dimensions:
 24(L) x 20(W) x 6(D)mm
 Total length including blades: 31mm



Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Lt. Brown	Auto	SF2320	\$7.90	\$7.10	\$6.30
7.5A	Brown	Auto	SF2321	\$7.90	\$7.10	\$6.30
10A	Red	Auto	SF2323	\$7.90	\$7.10	\$6.30
15A	Blue	Auto	SF2324	\$7.90	\$7.10	\$6.30
20A	Yellow	Auto	SF2325	\$7.90	\$7.10	\$6.30
25A	White	Auto	SF2326	\$7.90	\$7.10	\$6.30
30A	Green	Auto	SF2327	\$7.90	\$7.10	\$6.30

CIRCUIT BREAKERS

Chassis Mount Auto Circuit Breakers

Single pole thermal circuit breaker. Auto reset.

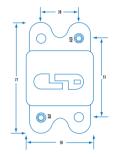
 12 and 24VDC in current ratings from 20 - 50A



Current	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
20A	12VDC	SF4100	\$10.90	\$9.90	\$8.90
30A	12VDC	SF4102	\$10.90	\$9.90	\$8.90
40A	12VDC	SF4104	\$10.90	\$9.90	\$8.90
50A	12VDC	SF4106	\$10.90	\$9.90	\$8.90
20A	24VDC	SF4108	\$10.90	\$9.90	\$8.90

High Current DC Circuit Breakers

Moulded in black electrical grade bakelite, these rugged and reliable devices allow you to simply reset rather than find another expensive fuse. They can be used as an occasional circuit isolation switch. Two popular current ratings. Both units have the same physical dimensions. Ideal for car sound installations. Operating voltage is 12 to 14VDC. Each device will trip within a few milliseconds under short circuit conditions and feature protective rubber caps, test button and gold plated 5mm dia. terminals.



70A 12-14VDC

Will trip within 1 minute at 90A load. Will trip within a few milliseconds under short circuit conditions. Supplied with 5mm dia gold plated terminals with captive shakeproof washer and provision for up to 1/4" mounting bolts. Protective rubber caps for terminals. Test button on top of unit enables circuit breaker to be used as switch circuit restored with simple lever action.



SF2265

1004 12-14VDC

Will trip at 110A or immediately under short circuit conditions.

Rating (A)	Cat.	Qty 1+	Qty 10+	Qty 25+
70	SF2265	\$39.90	\$35.90	\$31.90
100	SF2266	\$39.90	\$35.90	\$31.90

Heavy Duty Panel Mount Circuit Breakers

A range of heavy duty and high quality panel mount circuit breakers. The reset switch on these units are high grade and will not fail in short period unlike other units in the market. It has a protective plastic cover to prevent accidental shortage. Incorporates multi-wire gauge inputs and outputs, they are perfect for high end car audio installations, automotive wiring or solar installations. Terminals are platinum plated.

• Measures at 85(W) x 68(H) x 35(D)mm



Current	Cat.	Qty 1+	Qty 4+	Qty 10+
60A	SZ2081	\$49.90	\$44.90	\$39.90
120A	SZ2083	\$49.90	\$44.90	\$39.90
200A	SZ2085	\$49.90	\$44.90	\$39.90

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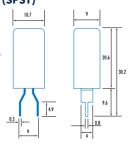
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CIRCUIT BREAKERS CONTINUED

PCB Mount Thermal Circuit Breakers (SPST)

Miniature auto-resetting thermal type units that solder directly into a PCB.

- Ideal for protecting power supplies,
- amplifier output transistors, appliances etc • Slow response time is ideal when capricious tripping would be a nuisance
- Judicious selection of breaker rating will ensure protection without unnecessary tripping







Specifications	All Models
Calibration	100% rated; will not trip. (all at 25°C) 101-170% increasing likelihood of trip / 175-199% trip within 1 hour. 200% within 1 minute / 200% + from 1 minute to seconds.
Input	12VDC, 125VAC
Dielectric Strength	1500VAC 1 Minute
Contact Endurance	>1000 cycles, @ 150% of contact rating.

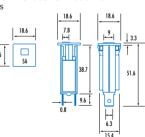
SF2281

Current	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
1.5A	0.12	SF2281	\$8.90	\$8.00	\$7.10
3A	0.075	SF2283	\$8.90	\$8.00	\$7.10
4A	0.050	SF2284	\$8.90	\$8.00	\$7.10
5A	0.050	SF2285	\$8.90	\$8.00	\$7.10

Panel Mount Thermal Circuit Breakers (CBE) IEC 934 TYPE "R/TO"

These attractive looking units feature a black 19mm square facade with a centrally mounted bright red 'trip' button.

- When tripped, the red button extends
- To reset simply push button back in (once fault has been cleared)
- · Slow response time ideal for inductive/ reactive loads



			15.	4			
Specificati	ons	All M	odels				
Hold Curre	nt	100% ld	100% load indefinitely				
Trip Curren	p Current Within 1 hour @ 135% load, Within 1 min. @ 200% load					load	
Input		32VDC,	125VAC & 250	VAC			
Dielectric S	Strength	1500VA	C 1 Minute				
Contact Endurance >500 c			>500 cycles @ 150% of contact rating.				
Current	Resistan	ice (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+	
2.4	0.17		CESSOS	¢10.00	ተበ በበ	ተበ በበ	

Current	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
3A	0.16	SF2293	\$10.90	\$9.90	\$8.90
5A	0.12	SF2295	\$10.90	\$9.90	\$8.90
7A	0.075	SF2297	\$10.90	\$9.90	\$8.90
10A	0.015	SF2300	\$10.90	\$9.90	\$8.90
15A	0.008	SF2315	\$10.90	\$9.90	\$8.90

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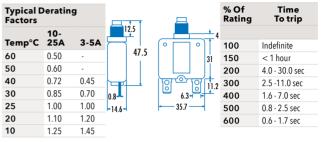
Electrical Type Circuit Breaker

These circuit breakers are rated at 250VAC

- Maximum voltage 250VAC or 50VDC Will hold 100% of rated current indefinitely at 25°C
 Derate at higher temperatures
- Manual push reset
- Insulation resistance >100M ohm
- Mounting hole diameter 12mm
- Size 46(H including terminals) x 35.7(D) x 14.6(W)mm
- Approval CS8389N

SF2261

S71903



Current	Resistance (mΩ)	Cat.	Qty 1+	Qty 10+	Qty 25+
3A	100	SF2252	\$10.90	\$9.90	\$8.90
5A	50	SF2254	\$10.90	\$9.90	\$8.90
10A	20	SF2258	\$10.90	\$9.90	\$8.90
15A	15	SF2259	\$10.90	\$9.90	\$8.90
20A	10	SF2260	\$10.90	\$9.90	\$8.90
25A	6	SF2261	\$10.90	\$9.90	\$8.90

Marine Grade Illuminated Switch Panels with Circuit Breakers

An economical solution to controlling multiple DC circuits on your boat, or any other application where you want to switch multiple DC circuits. Each switch panel is an attractive moulded ABS plate, with high quality 10A rated illuminated rocker switches and re-settable circuit breakers on each circuit. Power is supplied on a common rail to keep wiring neater, and wiring connections are made with standard spade terminals.

Two versions available:

- 4 WAY CAT. SZ1902
- Dimensions 110(H) x 100(W) x 45(D)mm
- 6 WAY CAT. SZ1903
- Dimensions 160(H) x 100(W) x 45(D)mm

	SZ1902			
Size	Cat.	Qty 1+	Qty 10+	Qty 25+
4 Way	SZ1902	\$48.90	\$44.00	\$39.10
6 Way	SZ1903	\$59.90	\$53.90	\$47.90

IP66 Marine Switch Panels with Circuit Breakers

These units feature the attractive tactile rocker switches that are common on luxury Australian and foreign made motor cruisers. The panels have Butyl rubber gaskets and IP66 water resistant rated switches and circuit breakers, making these switch panels suitable for an exposed environment. They are pre-wired as much as possible, with wiring connections made via standard spade terminals for ease. Both require about 80mm of space behind the mounting bulkhead. The 4 way has 6,10,15 & 20A rated circuit breakers and the 6 way has 6,6,10,10,15 & 20A breakers, and the switches feature LED illumination to let you

know which circuit is active. • Moulded from ABS plastic

Two versions available: 4 Way: 120(H) x 130(W)mm 6 Way: 170(H) x 130(W)mm



SZ1906			SZ1907		
Туре	Cat.	Qty 1+	Qty 10+	Qty 25+	
4 Way	SZ1906	\$86.90	\$78.20	\$69.50	
6 Way	SZ1907	\$119.00	\$106.90	\$94.90	

CIRCUIT & THERMAL PROTECTION

CIRCUIT BREAKERS CONTINUED

Anti-Tamper 4-Gang Switch Bank/Circuit Breaker

This switch bank consists of a gang of 4 x 16A/12VDC circuit breaker rocker switches pre-wired with protective translucent panels to discourage naughty fingers tampering with them. The rockers act like switches but will behave like a circuit breaker if any circuit pulls more than 16A. They would typically be used to power all sorts of things while under way which should not be

Each translucent panel has a recess to accept a permanent sticker annunciating the function of the switch. A sheet of decal annunciators is annunciating the function of the switch. A sheet of decal annunciators is supplied with 45 (yes 45) labels. These range from "Bilge Pump" to "Deck Wash", to "Fridge", "Macerator Pump", "Radar", "VHF", etc. Front dimensions of the panel are 130(W) x 50(H)mm. Approx. 40mm is needed behind the panel for wiring access. 2 x No. 8 countersunk screws are supplied.



Cat.	Qty 1+	Qty 10+	Qty 25+
SZ1926	\$33.90	\$29.90	\$26.90

POLYSWITCHES

PTC Fuses - Circuit Protection

Polyswitch protectors are based on conductive polymers and act like resettable solid state circuit breakers. When the operating current of the protector is exceeded the interior of the device partially melts, which increases the volume increasing the resistance drastically. This in turn reduces the current. The device stays in this state while the current is maintained because its temperature is elevated. Once the current is removed, the device re-establishes itself almost immediately, so that the low resistance value is restored.



Cat.	Part No	Trip Watts 4Ω	6Ω	8Ω	Amp	os
RN3460	RXE075	5.1	7.7	10.2	1.50	
RN3462	RXE090	7.3	10.9	14.6	1.8	
RN3464	RXE110	10.9	16.3	21.8	2.2	
RN3466	RXE160	23.0	34.6	46.1	3.2	
RN3468	RXE185	31.4	47.0	62.7	3.7	
RN3470	RXE250	56.3	84.4	112.5	5.0	
Industry No.		Cat.	Qty 1+	Qty 1	10+	Qty 25+
Industry No. RXE075		Cat. RN3460	Qty 1+ \$2.20	Qty 1		Qty 25+ \$1.75
•					j	,
RXE075		RN3460	\$2.20	\$1.95	; ;	\$1.75
RXE075 RXE090		RN3460 RN3462	\$2.20 \$2.40	\$1.95 \$2.15	; ;)	\$1.75 \$1.90
RXE075 RXE090 RXE110		RN3460 RN3462 RN3464	\$2.20 \$2.40 \$2.60	\$1.95 \$2.15 \$2.30))	\$1.75 \$1.90 \$2.05
RXE075 RXE090 RXE110 RXE160		RN3460 RN3462 RN3464 RN3466	\$2.20 \$2.40 \$2.60 \$2.80	\$1.95 \$2.15 \$2.30 \$2.50	5))	\$1.75 \$1.90 \$2.05 \$2.20

Free Boxes!

MOVING HOUSE? NEED SOMETHING FOR STORAGE?

In the course of running our business, we go through thousands of stout cardboard boxes that become surplus to our needs. If you need a box - even several - just ask and we will probably have half a dozen or so that could be suitable for you. They are FREE and you are doing yourself and us a favour by recycling them.

THERMAL PROTECTION

Thermal Fuses

These devices go open circuit permanently when they reach their rated temperature. They are used extensively in 240V mains rated appliances including, heaters, fan heaters, curlers, hair dryers, toasters, etc.



				- Ø4	
Cat.	Tf°C	Th°C	Tm°C	Non	imal Temp
ST3800	75	50	105	70°C -	+3/-1
ST3804	136	101	166	132°C	+2/-2
ST3808	158	123	263	154°C	+0/-5
ST3810	185	150	263	192°C	+1/-3
ST3812	219	174	249	214°C	+2/-2
ST3814	233	188	263	229°C	+1/-3
Marking	Temperature °C	Cat.	Qty 1+	Qty 10+	Qty 25+
Yellow	70	ST3800	\$4.50	\$4.05	\$3.60
Grey	132	ST3804	\$4.50	\$4.05	\$3.60
Black	154	ST3808	\$4.50	\$4.05	\$3.60
Light Green	192	ST3810	\$4.50	\$4.05	\$3.60
Dark Green	214	ST3812	\$4.50	\$4.05	\$3.60
Dark Blue	229	ST3814	\$4.50	\$4.05	\$3.60

THERMOSTAT SWITCHES

Thermal Circuit Breaker/Switch AUTOMATIC RESETTING BI-METALLIC DISC, SNAP ACTING

This phenolic-housed unit attaches to any metal surface which needs to be heat monitored

• Normally closed or normally open available

Specifications	All Models	
Operating Tolerance	+/- 5°C (32VDC), +/- 8°C(125VAC), +/- 10°C (250VAC)	
Reset Differential	10°C - 50°C	30.3 ↓
Contact Endurance	32VDC - 100mA - 50,000 cycles	₹ 0.5
Cycles	125VAC - 10A - 100,000 cycles	21.2
Cycles	250VAC - 6A - 30,000 cycles	
Interrupt Capacity	125VAC x 60A - 5 cycles	10
Overshoot Temperature	200°C/5 minutes	6.3
Dielectric Strength	1500VAC 1 minute	
Reset Type	Auto Reset	

Opening Temp (°C)	Reclos (Appr	sing Temp ox °C)	Cat.	Qty 1+	Qty 10+	Qty 25+
60	40	Normally Closed	ST3821	\$6.90	\$6.20	\$5.50
70	58	Normally Closed	ST3823	\$6.90	\$6.20	\$5.50
90	75	Normally Closed	ST3825	\$6.90	\$6.20	\$5.50
100	85	Normally Closed	ST3826	\$6.90	\$6.20	\$5.50

NORMALLY CLOSED

Trip Current

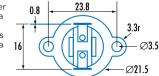
When the surface meets or exceeds a certain temperature the SPST bimetallic element goes open circuit.

- The unit resets automatically when temperature falls below a specified limit
 Ideal for any electrical item that needs thermal protection

NORMALLY OPEN

These thermostat switches have normally open contacts. They operate once the temperature reaches a specified limit and automatically reset to their original normally open state once the temperate drops below its rated temperature. These are suitable for

power amplifier applications and other temperature sensitive devices where a cooling fan needs to be integrated to cool the device down. Mounting holes are provided, ideal for attachment to a heatsink or any metallic surface.



Thermostat (°C)		Cat.	Qty 1+	Qty 10+	Qty 25+
50	Normally Open	ST3831	\$6.90	\$6.20	\$5.50
70	Normally Open	ST3833	\$6.90	\$6.20	\$5.50
100	Normally Open	ST3836	\$6.90	\$6.20	\$5.50

ST3821

INDIVIDUAL "CONTURA" STYLE DC ROCKER SWITCHES

These are the superb looking rocker switches that you have seen in the cockpits of the 70-100ft luxury motor cruisers recently. They would look great in your 4WD, RV, Caravan or any other application as well. The base switch supplied (rated at 12V 20A, 24V 10A) comes with a double-LED illumination (low in OFF, high in the ON position), a standard rocker cover and a standard range of decals to customise the switch to your application. Typical decals are symbols for: windscreen wipers, horn, heater, etc; there laser-etched covers with the following graphic symbols to really create a professional finish. You need to buy the basic switch (in blue, white or red illumination) and then the custom cover (if required).









SK0922

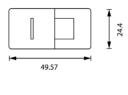


SK0923



SK0924

27.2 10 0 0 6.3 37 21





Rating	Colour	(Cat.	Qty 1+	Qty 10+	Qty 25+
12V 20A/24V 10A SPE	OT White	9	SK0910	\$18.90	\$16.90	\$14.90
12V 20A/24V 10A SPE	OT Red	9	SK0912	\$18.90	\$16.90	\$14.90
12V 20A/24V 10A SPE	T Blue	9	SK0914	\$18.90	\$16.90	\$14.90
12V 20A/24V 10A SPE	T Amber	9	SK0916	\$18.90	\$16.90	\$14.90

Modular Rocker Switch Brackets

Compatible with our Contura style switches, these brackets use a clever modular design allowing you to "stack" multiple rocker switches together into a single cutout. The end-cap piece works for either end, and you can put as many centre pieces in as you like. Also available in a single-switch mount. 100% interchangeable with the round-hole variant of these brackets - PS2806/PS2808 (See page B90).







SK0800	SK0802		SK0804		
	Cat.	Qty 1+	Qty 10+	Qty 50+	
Single Mount	SK0800	\$4.60	\$4.10	\$3.65	
Modular End	SK0802	\$4.60	\$4.10	\$3.65	
Modular Centre	SK0804	\$4.60	\$4.10	\$3.65	

p.A158 - "Contura" Style USB Sockets



Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

SK0925 SK0926 SK0927 SK0928 SK0929

Laser-etched Rockers	Cat.	Qty 1+	Qty 10+	Qty 25+
12V Power	SK0920	\$4.00	\$3.60	\$3.20
Fridge	SK0921	\$4.00	\$3.60	\$3.20
Aux Battery	SK0922	\$4.00	\$3.60	\$3.20
Interior Lights	SK0923	\$4.00	\$3.60	\$3.20
Spot Lights	SK0924	\$4.00	\$3.60	\$3.20
Horn	SK0925	\$4.00	\$3.60	\$3.20
Rear View Camera	SK0926	\$4.00	\$3.60	\$3.20
Inverter	SK0927	\$4.00	\$3.60	\$3.20
Driving Lights	SK0928	\$4.00	\$3.60	\$3.20
Thermofan	SK0929	\$4.00	\$3.60	\$3.20

Illuminated Blue Rocker Switch Panels

Straight forward installation and wiring, with just four connections - everything else is pre-wired! Then all you need to do is connect your various peripheral devices. Switches are rated at 20A for a 12V system (10A for 24V) up to a maximum 45A per panel. The LED illumination is powered separately, so you can run it through a switch or dimmer too.

- Easy installation
- High quality switches
- Blue LED illumination





571923

Specifications	ALL						
Switch Rating		12VDC @ 20A 24VDC @ 10A					
Panel Rating	45A Total	45A Total					
	Cat.	Qty 1+	Qty 5+	Qty 10+			
2 Way	SZ1923	\$45.90	\$40.90	\$35.90			
4 Way	SZ1924	\$69.90	\$62.90	\$55.90			
6 Way	SZ1925	\$94.90	\$84.90	\$75.90			

A158 Freecall order hotline: 0800 452 922 jaycar.co.nz

ROCKER SWITCHES

ROCKER SWITCHES

SPST - Ultra Mini

- Snap in fittingSPST 250VAC 6A
- Cutout size 6.5(W) x 19(H)mm
- Black body, black actuator
- QC tab termination 6.4mm (PT4607)



Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SPST	SK0975	\$2.90	\$2.60	\$2.30

SPST - Mini

- Dimensions: 21 x 15mm
- Panel cut out size 13 x 19.5mm
- QC tab termination
- SPST 240V 6A
- Black actuator



Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 6A	SPST	SK0984	\$2.50	\$2.00	\$1.80

SPDT - Centre Off

- Latching
- Voltage: 250VAC
- Current: 6 Amp

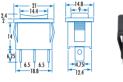


Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SPDT	SK0991	\$5.90	\$5.20	\$4.70

SPDT - Mini - Centre Off **SPRING RETURN BOTH SIDES**

Momentary contacts with spring return to centre on both sides.

- Mini QC tab termination 4.8mm (PT4607)
- Contact arrangement SPDT mom-off-mom



Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
250V 6A	SPDT	SK0987	\$5.90	\$5.20	\$4.70

SPST IP56 Rated Mini Rocker Switch

SPST mini rocker switches with spade QC lugs. Sealed with a rubber boot and IP56 rated.

Two types available:

- Black: SK0968
- Red (illuminated): SK0969
- Cutout: 18.8 x 12.5mm





Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	Black	SK0968	\$9.90	\$8.90	\$7.90
12VDC 16A	Red - Illuminated	SK0969	\$10.90	\$9.90	\$8.90

SPST - Illuminated

Black body with illuminated actuator. Ideal replacements for appliances

- Snap in fitting
- QC tab termination 6.8mm (PT4507)
- Cutout: 33.8 x 13.8mm



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 15A	Blue	SK0976	\$4.50	\$3.70	\$3.30
240VAC 15A	Red	SK0978	\$4.50	\$3.70	\$3.30
240VAC 15A	Green	SK0979	\$4.50	\$3.70	\$3.30

SPDT IP65 Illuminated Centre Off Rocker Switch

IP65 rated, illuminated switch for automotive and marine applications. Illuminates one side red and one side green

- On-Off-On
- Rating: 14VDC, 21A



SPST Illuminated IP56 Rated Rocker Switch

IP56 rated, large rocker actuator.

- SPST
- Illuminated red
- Rated for 12VDC 20A





DPST - Mini - Neon Illuminated

- 240VAC
- Illuminated actuator
- Solder terminals
- QC tab termination: 6.4mm (PT4607)





DPDT - Large - Neon Illuminated

Mains Illuminated. DPDT 240VAC 15 amp.

Black body, available in red or green illumination

- Spade lug connection
 Cutout 27 x 22mm
- QC tab termination: 6.8mm (PT4507)



Rating		Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 15A	DPDT	Red	SK0982	\$6.90	\$6.20	\$5.50
240VAC 15A	DPDT	Green	SK0983	\$6.90	\$6.20	\$5.50

DPDT - Large - Non Illuminated

DPDT switch with black body and black actuator.

- QC tab termination
- 240VAC 16A
- Snap in fitting

Rating

0 0 240VAC 16A



Waterproof Caps for Rocker Switches

Push-on, clear plastic caps to suit rocker switches.

SUITS MINI SWITCHES

Suits switches SK0984 and SK0987.





SUITS LARGE ROCKER SWITCHES

Suits switches SK0980, SK0981 SK0982 and SK0983.

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+	
Suits Mini Rocker Switches	SK0970	\$1.90	\$1.50	\$1.30	
Suits Larger Rocker Switches	SK0972	\$2.50	\$2.00	\$1.80	

ROCKER SWITCHES CONTINUED

DPDT - Large - Centre/Off

Spring Return Both Sides, Momentary contacts with spring returns to centre on both sides. These are commonly used for car power antennas and power windows.

• Rated at 10A 250VAC

QC tab termination 6.4mm (PT4607)



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK0980	\$9.90	\$8.50	\$7.50

SPST - Round Actuator

- Snap fits into a 20mm round hole
- 10 amps @ 250VAC
- Black body with black actuator
- QC tab termination 6.4mm (PT4607)



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK0960	\$3.40	\$3.05	\$2.70

SPST - Round Actuator

Illuminated Red

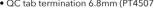
- Snap fits into a 20mm round hole
- 6A @ 250VAC
- Black body with red neon actuator
- QC tab termination 6.4mm (PT4607)



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK0962	\$3.90	\$3.10	\$2.70

SPST - Rocker Actuator

LED Illuminated - Red. This is a classy switch. It is a rocker, but only needs a round 12mm hole (with 1mm flat). It is SPST and can handle a massive 30 amps at 12VDC. There is an LED in the actuator which lights from a



9 - 12V source. • QC tab termination 6.8mm (PT4507)		4507)	315	<i>∭</i> †	
Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 30A		SK0955	\$5.90	\$5.20	\$4.70

SPST - Paddle

Illuminated paddle type actuator with built in red LED.

- Mounts easy in a 20mm hole
- 6A @ 250VÁC
- LED requires 12V @ 20mA
- Black body
- QC tab termination 6.8mm (PT4507)
- Solder tabs for LED

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK0964	\$6.90	\$6.20	\$5.50

DPDT Round Actuator - Red

This rocker mounts in a round 18mm hole.

- DPDT
- 6 amps @ 250VAC
- · Black body, red actuator
- Solder pins

• 18mm mounting noie	1-			
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK0994	\$5.90	\$5.20	\$4.70

DPDT - Round Actuator - IP65

DPDT round rocker switches with mini spade QC lugs. Sealed with a rubber boot and IP65 rated.

• 20mm mounting hole



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A Black	SK0966	\$9.90	\$8.90	\$7.90
250VAC 6A Red - Illuminated	SK0967	\$11.90	\$10.90	\$9.90

FLOAT SWITCHES

Float Switch

VERTICAL OR HORIZONTAL MOUNT NO or NC. Ideal for use in conjunction with solenoid valves, water pumps, etc., this float switch can be made NO or NC (Normally Open or Normally Closed) by the orientation of the float. Horizontally mounted so the float falls, when the fluid level rises it will switch ON at maximum float height. Mounting the switch so the float rises upwards when the fluid level rises above switch height it will switch OFF. Vertical mounting, with the float down, will switch OFF at a high fluid level. Widely used in marine, automobile, industrial, agricultural fluid level sensing applications.

• 560mm wire leads

١

- 92.5(L)x 18(D)mm x M16

Float Rise height: 40mm from centreline		92.5			
	Cat.	Qty 1+	Qty 10+	Qty 25+	
NO or NC	SF0920	\$24.90	\$22.40	\$19.90	

Top Mounting Float Switch (Level Detector)

Ideal to control tank filling systems this vertical movement float switch fits quickly to the lid or top cover of a tank or other container. A mere 20mm gap and don't overfill the vessel. Contacts are closed when the float is out of liquid and open when the float is elevated.

Dimensions: 70(L)x23(Dia)mm



• Mounting Diameter: 8mm

<u> </u>				WARRANTY
	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF0922	\$21.90	\$19.30	\$16.90

LAMP STYLE PUSHBUTTON SWITCH

240V 2A Bed Lamp Style Pushbutton

Universal pushbutton switch suitable for replacing switches in some equipment. Also commonly used in small electronics projects such as school science experiments due to ease of connection using screw terminals.

- 240V 2A rating
- Panel mounting hole: 10mm
- Maximum panel thickness: 2.5mm • Pushbutton stem: 7(L) x 5(Dia.)mm

• Dimensions: 25(H) x 24(L) x 12(W)mm

Sorry! We cannot find a double pole version of this switch.

Туре	Туре	Cat.	Qty 1+	Qty 10+	Qty 25+
Pushbutton	SPST	SP0735	\$2.90	\$2.60	\$2.30

INLINE DC SWITCH

Inline Low Voltage Switch

Simply connect your plug pack adaptor into this handy in-line switch to provide quick and easy on/off control. Much easier than unplugging the connector or reaching for the power point when you want to switch your device on or off. Fitted with 2.1mm DC plug & socket and rated at 24VDC at 2A.

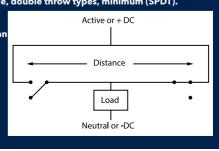


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 2A	SK0998	\$9.90	\$8.50	\$7.50

DUAL SWITCHING

This circuit enables you to turn a load on or off (typically lighting) from either switch which may be a long way apart. The switches must be single pole, double throw types, minimum (SPDT).

Note! Only a qualified electrician can perform this wiring for 240V. You can do it yourself for low AC or DC voltage



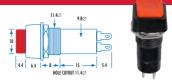
PUSHBUTTON SWITCHES

PUSHBUTTON SWITCHES

SPST Square

Rated 3A 250VAC.

• Mounting hole 12mm



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
Push-on Momentary SPST Red	SP0716	\$2.90	\$2.60	\$2.30
Push-on/Push off SPST Black Latching	SP0718	\$2.90	\$2.60	\$2.30
Push-Off (N/C) SPST Momentary - Red	SP0717	\$2.90	\$2.60	\$2.30

DPDT Illuminated - IP65

- Available in momentary or on/off action
- Rated for 250VAC 3A
 12VDC LED illumination
- Mounting hole 15mm
 IP65 rated
- Contact arrangement DPDT N.O./N.C.



Rating	Action	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A	Momentary	Red	SP0741	\$16.90	\$14.90	\$13.90
250VAC 3A	Push On Push Off	Red	SP0745	\$18.90	\$16.90	\$14.90
250VAC 3A	Momentary	Green	SP0747	\$16.90	\$14.90	\$13.90
250VAC 3A	Push On Push Off	Green	SP0749	\$18.90	\$16.90	\$14.90

SPST LED Illuminated

These short bodied pushbuttons are available in 2 styles. Both have red LEDs behind a red diffused actuator.

- Rated at 1.5A 250VAC
- LED needs 2VDC @ 20mA



Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	Momentary	SP0706	\$7.90	\$7.10	\$6.30
250VAC 1.5A	Push On Push Off	SP0704	\$7.90	\$7.10	\$6.30

DPST Round - IP56

IP56 rated round pushbutton switches.

- QC spade lugs Push on/push off
- Mounting hole: 20mm dia



		A	U E	1-6	
Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A DPST	Black	SP0743	\$7.90	\$7.10	\$6.30
250VAC 6A DPST	Red Illuminated	SP0751	\$8.90	\$7.70	\$6.70

SPST Dome - IP67

- IP67 rated
- Momentary action
- Mounting hole 12mm





SP0657

SPST Round - IP65

Red

50V 100mA SPST

- Available in momentary or on/off action
- Rated for 14V 10A
- Mounting hole 22mm Contact arrangement SPST N.O.
- IP65 rated



\$5.20

\$4.70

\$5.90

					-	
Rating	Colour	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
14V 10A	Black	Momentary	SP0756	\$8.90	\$8.00	\$7.10
14V 10A	Red	Momentary Illuminated	SP0757	\$11.90	\$10.90	\$9.90
14V 10A	Black	Push On Push Off	SP0758	\$8.90	\$8.00	\$7.10
14V 10A	Red	Push On Push Off Illum	SP0759	\$11.90	\$10.90	\$9.90

DPDT Illuminated - IP67

- DPDT (N.O./N.C.), on-off or momentary
- Rated for 250VAC@3A
- 12VDC LED illumination
- IP67 rated
- Mounting hole 16mm



Rating	Colour	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A	Red	on - off	SP0791	\$29.90	\$26.90	\$23.90
250VAC 3A	Green	on - off	SP0792	\$29.90	\$26.90	\$23.90
250VAC 3A	Blue	on - off	SP0793	\$29.90	\$26.90	\$23.90
250VAC 3A	Red	Momentary	SP0796	\$26.90	\$23.90	\$21.90
250VAC 3A	Green	Momentary	SP0797	\$26.90	\$23.90	\$21.90
250VAC 3A	Blue	Momentary	SP0798	\$26.90	\$23.90	\$21.90

DPDT Dual Colour Illuminated - IP67

Similar to the illuminated switches shown above, but illuminate red or green depending on the on-off state.

- DPDT (N.O./N.C.), on-off or momentary
 Rated for 250VAC@3A
- 12VDC LED illumination
- IP67 rated
- Mounting hole 16mm



Action	Colour	Cat.	Qty 1 +	Qty 10+	Qty 25+
Momentary	(Red to Green)	SP0787	\$27.90	\$24.90	\$21.90
On-off	(Red to Green)	SP0788	\$29.90	\$26.90	\$23.90

19mm IP67 Metal Pushbutton Momentary Switch with Illumated Ring

A durable and stylish stainless steel switch with LED illumination.

- Dust and waterproof to IP67
- 12V LED illumination • 19mm mounting hole
- SP0800/SP0802/SP0804:
- DPDT momentary action SP0810:
- SPDT momentary action with blue Power symbol





	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	DPDT	SP0800	\$22.90	\$20.90	\$17.90
Blue	SPDT	SP0810	\$22.90	\$20.90	\$17.90
Blue	DPDT	SP0802	\$22.90	\$20.90	\$17.90
Green	DPDT	SP0804	\$22.90	\$20.90	\$17.90

SPDT Illuminated Arcade Button

Brightly coloured illuminated pushbutton switches ideal for creating a custom arcade machine, or even use as a large illuminated pushbutton for a control panel. Suits 25mm mounting hole.

- SPDT Microswitch for reliable operation
 All connections are 6.3mm spade
- Includes LED illumination suitable for 12V



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 5A SPDT	Red	SP0662	\$10.90	\$9.90	\$8.90
250VAC 5A SPDT	Yellow	SP0664	\$10.90	\$9.90	\$8.90
250VAC 5A SPDT	Green	SP0665	\$10.90	\$9.90	\$8.90
250VAC 5A SPDT	Blue	SP0666	\$10.90	\$9.90	\$8.90
250VAC 5A SPDT	White	SP0669	\$10.90	\$9.90	\$8.90

IGNITION SWITCHES

SPST Engine Start Switch

• Keyless engine start for track or street use

 Illuminated momentary action pushbutton Rated for 12VDC 50A

Mounting hole 22mm

Contact arrangement

SPST N.O.



Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50A	SPST	SP0773	\$24.90	\$22.40	\$19.90

Racing Ignition Switch Panel - SPST

Complete ignition switch panel ready to install in your car. Push button engine start, missile launch ignition on and indicator light. Finished in faux carbon fibre to complete



 Contact arrangement SPST N.O. (Both switches)



• 73(VV) X 00(11)111111						
Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+	
12VDC 20A	SPST	SP0774	\$48.90	\$44.00	\$39.10	

MOMENTARY SWITCHES

SPST - Miniature

125VAC 1 amp rating.

- Momentary action
- Push-on



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Rating	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+	
125VAC 1A	Red	Mom	SP0710	\$2.20	\$1.95	\$1.75	
125VAC 1A	Black	Mom	SP0711	\$2.20	\$1.95	\$1.75	

SPST

SPST momentary push on switch

- Rated @ 1.5A 250VAC
- Actuator diameter 10mm
- Cutout 7mm
- Will panel mount on 1/2" centres



Rating	Туре	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	SPST	SP0702	\$4.90	\$4.10	\$3.70

DPDT

- Gold Contacts
- Rated 125VAC, 3A
- · 6mm mounting hole
- Momentary Action DPDT

Black ActuatorPositive Snap Ac	ction		4.8 4.8 HOLE C	0 0 52 + 11.6 + UTOUT 6∅	e na ne
Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
120VAC 3A	DPDT	SP0714	\$9.90	\$8.90	\$7.90

SPST Panel Mount

Very attractive small round momentary push on switch, with black body and black actuator, rated @ 1.5A 250VAC.

- Contact Arrangement SPST N.O.
- Cutout is 12.5mm
- Solid construction

Rating	Туре	Cat.	Qty 1+	Qty 10+	Qty 25-
250VAC 1.5A	SPST	SP0700	\$4.90	\$4.10	\$3.70

Cat.

SP0732

SPST Large Splashproof Pushbutton Switch

Plastic housing with brass 24VDC, 10A contacts. Plastic housing with protective rubber cap for harsh environments.

- Requires 22mm mounting hole
- Screw terminals

Rating

24VDC, 10A

- Ideal for horn button, starter motor activation, etc
- Contact Arrangement SPST N.O.



Qty 1+

\$7.90

₩	
Qty 10+	Qty 25+
\$7.10	\$6.30

SPST Metal Finish Pushbutton

- Silver metal body
 Rated 8A @ 125VAC or 4A @ 250VAC
- Momentary action
- 19mm mounting hole
- Screw terminal termination
- Contact Arrangement SPST N.O.

Rating	Туре	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 8A	SPST	SP0755	\$7.90	\$7.10	\$6.30

Latching Emergency Stop Switch

Essential for installations of industrial or lab equipment. Latching actuator with rotating release and normally closed contacts. When the actuator is pushed in, the normally closed contacts open and the switch is latched,

ensuring the equipment can't be operated until the switch is intentionally disengaged by rotating the actuator and releasing. It has two independent sets of contacts; normally open and normally closed.

- Configuration: 2 contact sets, normally closed (RED) & normally
- open (GREEN)

 Actuation: Push off, rotate on
- Contact Rating: 125VAC 6A, 300VAC 3A
- Mounting Hole: 22mm

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 6A	SP0786	\$16.90	\$14.90	\$13.90

Push Button Switch Caps

Black caps which press fit over Push Button switches with a shaft diameter of 2.54mm (0.1inch). OD: 5mm, Height: 5mm



	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 10	SP0596	\$5.90	\$5.20	\$4.70

FOOT SWITCHES

3PDT Heavy Duty Foot Switch

Being 3 pole means you can wire your stompbox projects to be true bypass. It also has a low profile body so it can be accommodated in shallow enclosures and it has a solid, positive click on/off action. Heavy duty for the rough and tumble world of rock n' roll.

- Push on push off250VAC 2A rated
- Hole size: 12mm R

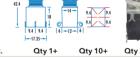
Rating	Туре	Cat.	Qty 1+	Qty 10+	Qty 25+
50VAC 2A	3PDT	SP0766	\$18.90	\$16.90	\$14.90

DPDT Heavy Duty Foot Switch

The alternative action switch (push on, push off).

- Contact rating with resistive load 2A@250VAC

• Contact resistance	<0.0052



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	DPDT	SP0764	\$11.90	\$10.90	\$9.90

Foot Switch

Momentary action and can be wired to be either push-on or push-off. Rated at 250V 10 amp. The switch has a positive switch feel and an audible "click" when pressed.

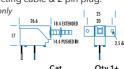
- Switch size 80(W) x 80(L) x 30(D)mm
- Colour is grey, cable is 850mm long

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SP0760	\$29.90	\$26.90	\$23.70

ATX Computer Power Supply Switch

Replacement Power Switch. 250VAC 10A*. Complete with connecting cable & 2 pin plug.

*Note: rating for switch only (not header socket).





Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SP0748	\$17.90	\$15.90	\$14.30



SPST

TOGGLE SWITCHES

TOGGLE SWITCHES:



Specifications	Sub Miniature	Miniature
Electrical Life (Make - And - Break Cycles At Full Load)	30,000	40,000
Contact Resistance (@2 - 4VDC @ 100mA)	20mΩ	10mΩ
Insulation Resistance (Any Contact to Body)	1000MΩ	1000MΩ
Dielectric Strength (@ Sea Level)	1000VRMS	1000VRMS
Contact Rating (With Resistive Load)	1A @ 250VAC	2A @ 250VAC
Contact Rating (With Resistive Load)	3A @ 28VAC	5A @ 28VAC

Sub-Miniature

SPDT - SOLDER TAG - THREADED BUSH





SPDT - HORIZONTAL PCB MOUNT (PUSHBUTTON)

Momentary on when depressed.





Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on-mom)	SP0380	\$5.80	\$5.20	\$4.60

DPDT - SOLDER TAG - THREADED BUSH





Miniature

S

SPDT - SOLDER TAG WITH THREADED BUSH



6.86	i) areasa	2.03		1 1	1	
Brackets Indicate Switch Posit	ion	Cat.	Qty 1+	Qty 10+	Qty 25+	
SPDT (on - on)		ST0335	\$3.90	\$3.10	\$2.70	
SPDT Centre Off (on-off-on)		ST0336	\$4.50	\$3.60	\$3.30	

DPDT - SOLDER TAG WITH THREADED BUSH



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT (on - on)	ST0355	\$4.50	\$3.90	\$3.60
DPDT Centre Off (on - off - on)	ST0356	\$5.50	\$4.70	\$4.30
DPDT Mom Centre Off (mom-off-mom)	ST0358	\$5.90	\$5.20	\$4.70
DPDT Mom (on - mom)	ST0357	\$5.50	\$4.70	\$4.30

DPDT - HORIZONTAL PCB MOUNT



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT Threaded Bush (on - on)	ST0365	\$5.90	\$5.20	\$4.70

Miniature (Continued) 3PDT MINI

Hole cutout 6mm



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
3PDT (on - on)	ST0505	\$9.90	\$8.50	\$7.50

4PDT MINI

Hole cutout 6mm



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
4PDT (on - on)	ST0506	\$10.90	\$9.50	\$8.50

Sealed Miniature

Ideal for use in wet or moist areas.

- Rated at 250VAC, 2A
- Splashpro-

Splashproof to IP54	- 4 -	41 0 19		/A = 1AX	B)
Brackets Indicate Switch Position		Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)		ST0554	\$8.90	\$7.90	\$6.90
DPDT (on - on)		ST0555	\$9.90	\$8.50	\$7.50

Miniature Flattened Actuator

ST0546 hole

SPDT (on - on) DPDT (on - on)







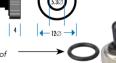
MOLE CLICOT & 3				
Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST0546	\$6.90	\$5.70	\$5.20
DPDT (on - on)	ST0547	\$7.90	\$7.20	\$6.50

Rubber Boot with Seal to Suit Mini Toggles

This waterproof hood replaces the standard mounting nut and has an integrated 'O' ring to seal your equipment from outside moisture.

- Suits our mini toggle switches
- True waterproof seal





Sea	I		,	
	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST0594	\$3.10	\$2.75	\$2.45

Standard Panel Mount Toggle Switches SPST

Body size 26 x 14mm, clearance 20.5mm.

- Mounting hole 12mmRated 2A 250V
- Solder terminals





250VAC 2A (on - off) ST0570 \$3.40 \$3.05 \$2	Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
250 776 277(011 011) 310070 \$0.10 \$0.00 \$2	250VAC 2A (on - off)	ST0570	\$3.40	\$3.05	\$2.70

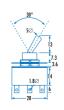
HOLE

CUTOUT

DPDT

- Body size 29.5 x 18mm
- Clearance 23mm
- Mounting hole 12mmRated 3A 250V
- Solder terminals







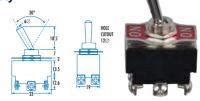
Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A (on - off)	ST0572	\$4.00	\$3.60	\$3.20

TOGGLE SWITCHES CONTINUED

DPDT - Extra Heavy Duty

Rated at 6A 250VAC, this switch will handle mains power switching.

- Screw terminals
- 12mm mounting hole



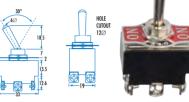
Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A (on - on) DPDT	ST0575	\$6.90	\$6.20	\$5.50

DPDT - Heavy Duty Centre Off

Huge 10A 125V rating, chrome toggle with on/off indicator plate.

DPDT centre off.
Body size 35 x
20mm,clearance 26mm,
mounting hole 12mm

 Screw terminals. Same physical size as ST0575 above



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 10A (on - off - on) DPDT	ST0576	\$6.90	\$6.20	\$5.50

SPST

Ideal for any high current 12VDC switching application. Our ST0578 Missile Switch Cover is perfectly suited to this switch.

- Body size 29.5 x 17mm
- Mounting hole 12mm
- Rated 20A 12VDC



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A Momentary (off - mom)	ST0577	\$7.90	\$7.10	\$6.30
12VDC 20A Toggle (on - off)	ST0579	\$7.90	\$7.10	\$6.30

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Heavy Duty Toggle

- Mounting hole 12mm
- Motor rated to 1HP
- ST0586 is Centre-Off







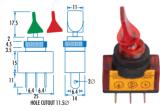
12VDC	250VAC		Cat.	Qty 1+	Qty 10+	Qty 25+
20A	20A	SPST	ST0581	\$7.90	\$7.10	\$6.30
20A	20A	SPDT	ST0583	\$8.90	\$8.00	\$7.10
20A	16A	DPDT	ST0585	\$11.90	\$10.90	\$9.90
20A	16A	DPDT - C/Off	ST0586	\$11.90	\$10.90	\$9.90

12V SPST Illuminated Duckbill Actuator

Actuator illuminates when switch is on.

Two colours available.

- Rated at 12VDC 10A SPST
- QC tab termination: 6.8mm (PT4507)



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 10A Red (on - off) SPST	ST0580	\$4.90	\$4.10	\$3.70
12VDC 10A Green (on - off) SPST	ST0582	\$4.90	\$4.10	\$3.70

Find Out More In Store

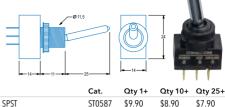
Our staff offer friendly and helpful service. We're here to help.

12V SPST Illuminated

Illuminated by an LED in the toggle for easy identification.

- Illuminated red
- Rated for 12VDC 20A
- Mounting hole 11.5mm

12VDC 20A



SPST 24V 15A Sealed Toggle

This large toggle switch is specially designed for marine conditions. A weatherproof rubber boot covers the actuator, and the switch mechanism is encapsulated in rubber. For this reason, 150mm fly leads are attached instead of the usual terminals. Not only limited to marine use it can also be used

usual terminals. Not only limited to marine use, it can also be used as an ultra-durable switch in many applications.

- Ideal for marine or automotive use
- Max volt rating: 24V @ 15 amps



		Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 15A	SPST	ST0574	\$16.90	\$14.90	\$13.90

Missile Switch Protective Cover

Military style missile switch cover featuring a heavy duty hinged, spring return protective cover. Covers turn switch off when snapped down. Fit any toggle switch with a 12mm mounting hole and appropriate length actuator.

Switch (Cat. ST0579) shown mounted in missile cover (switch not included).

When cover is down, actuator cannot move.



	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	ST0578	\$9.90	\$8.90	\$7.90
Carbon Fibre Style	ST0584	\$13.90	\$12.90	\$10.90



MINIATURE - INCLUDES NUTS FOR BOTH MINI & ULTRA-MINI TOGGLE SWITCHES.

Cat.	Qty 1+	Qty 10+	Qty 25+
ST0590	\$2.50	\$1.90	\$1.70

STANDARD (LARGE)

JIANUAND (EANOL)				
	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST0592	\$3.50	\$2.90	\$2.60

Arcade Joystick with MicroswitchesSolidly built joystick is ideal for arcade

games and emulators or anything that needs digital directional controls.

• SPST Microswitches for

- reliable operationAdjustable restrictor plate with options for 2 way,
- 4 way and 8 way

 Metal mounting plate and main shaft
- Removable knob for easy mounting



	Cat.	Qty 1+	Qty 10+	Oty 25+
Arcade Joystick	SM1052	\$29.90	\$26.90	\$23.90

A164 ∘ jaycar.co.nz Freecall order hotline: 0800 452 922

SECURITY SWITCHES

TAMPER SWITCHES

Alarm Tamper Style

This switch mounts behind an alarm module, bell or other item. If the device is tampered with or pulled from the wall, the alarm will be triggered. SPST. 18mm mounting hole. Contacts close when



		Cat.	Qty 1+	Qty 10+	Qty 25+
SPST	Each	LA5066	\$4.60	\$4.10	\$3.65

Tamper (Pin) Style - 2 Pack

Low cost spring loaded switch, simply make to frame (or earth) when pin is released i.e. by operating car or cabinet door, etc. 57mm overall, 12mm pin travel.



	Cat.	Qty 1+	Qty 4+	Qty 8+	
Pack of 2	LE8775	\$7.90	\$7.20	\$6.50	

Van Sliding Door Style

Double action sliding door switch, primarily designed for van doors and tailgates. Supplied with rubber mounting plates, screws, template stickers and installation instructions.

• Contacts are rated at a massive 20A@12V



				ļ
Cat.	Qty 1 +	Qty 2+	Qty 4 +	

Rating		Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC 20A	Each	LE8779	\$22.90	\$20.30	\$17.90

Metal Tamper (Pin) Style - 2 Pack

Ideal for car bonnets, this heavy duty pin switch is nickel plated for protection from corrosion. The plunger is plastic and can be cut to suit the required length/depth. Supplied with locking nuts and star washer. The bezel's mounting depth is also adjustable. Termination is via a 6.4mm spade

• Length (main body): 38mm Including plug & lug: 70mmShaft diameter: 7.75mm

• Fascia nut size: 11mm • Locking nut size: 12mm

• Travel (max): 13.5mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE8776	\$9.90	\$8.50	\$7.50

Metal Fascia Inset Pin Switch - 2 Pack

Inset pin switch with plated metal fascia. Suitable for many cars as a replacement door switch. The sturdy plunger can be cut to required length. Termination via right angle 6.4mm spade lug.

- Fascia: 34.5 x 16.5mm

- (not incl. lug & pin)

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE8777	\$9.90	\$8.50	\$7.50

• Pin: 27(L) x 8(dia)mm • Overall depth: 51mm • Travel (max): 8mm • Depth Behind Fascia: 15mm

BARREL LOCKS

SPST Barrel Key, Mini

Chrome plated SPST mini key switch features spring return momentary operation and is supplied with two mini barrel keys. Requires 28mm mounting depth and a panel cutout of 12mm.

• Contact rating: 0.5A@250VAC / 1A@125VAC



Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 500mA	SPST	SM1034	\$14.90	\$13.90	\$11.90

SPST Standard Key, Mini

- 2 keys supplied.
- Panel cutout 12mm • Mounting depth 29mm
- Contact rating: 1A 125VAC 0.5A 250VAC



Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 1A	SPST	SM1027	\$11.90	\$10.70	\$9.50

SPST Standard Size

Solid barrel type.

- 19mm mounting hole
- SPST action
- Supplied with 2 keys
- Rated @ 250V 2A



250VAC 2A		Cat.	Qty 1+	Qty 10+	Qty 25+
Random Keys		SM1030	\$16.90	\$14.90	\$13.90
Keyed Alike	Туре А	SM1029	\$16.90	\$14.90	\$13.90
Keyed Alike	Туре В	SM1031	\$16.90	\$14.90	\$13.90

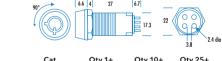
DPST Change-Over Key Switch

Uses tubular keys with black plastic inserts to easily identify them. It has 2 positions and the key is removable from both. There are 4 connection terminals, is a change-over type ie. connection DPST.

Contact rating: 2A, 250VAC.







Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	SM1032	\$19.90	\$17.90	\$15.90

MERCURY & REED SWITCHES

SPST Mini Mercury

With a robust plastic housing, this switch has a mounting tab - you can screw it down or use the self adhesive strip supplied. It has a 30cm lead. Switch contacts are open when the device is mounted horizontally. Dimensions: 33(L) x 8(W) x 8.5(D)mm.



*Normally open, but closed when

near magnet

	Cat. Qty 1+ Qty 10+ Qty 25+	
SPST SM1044 \$6.90 \$6.20	SM1044 \$6.90 \$6.20 \$5.50	

SPST MERCURY SWITCH

Glass encapsulated

R

- 125VAC 3 amp AC. SPST

Size glass 18(L)mm:	a			100	
ating		Cat.	Qty 1+	Qty 10+	Qty 25+
25VAC 3A	SPST	SM1035	\$3.50	\$2.90	\$2.60

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NC Reed Switch'

Ideal for burglar alarms.

- Total length: 44mm
- Glass length: 14mmContact rating: 10W
- Switching voltage: 200VDC (max)
- Switching current: 0.5A (max)
- Carrying current: 1.0A (max)

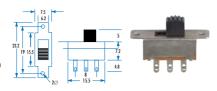
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+	
200VDC 500mA	SM1002	\$2.90	\$2.60	\$2.30	

SLIDE SWITCHES:

DPDT Panel Mount Sub Miniature

Break before make (non shorting contacts).

- Size 23(L) x 7(W)mm
- Actuator height 5mm Mounting holes 19mm
- Screws to mount switch use Cat. HP0390



		Cat.	Qty 1+	Qty 10+	Qty 25+
50VDC 500mA	DPDT	SS0852	\$1.90	\$1.70	\$1.50

DPDT Panel Mount Sub Miniature

(Spun aluminium actuator)

Panel mount

50VDC 500mA

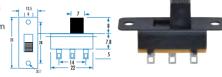
apart

- Size 23(L) x 7(W)mm
- Actuator height 7mm
- Mounting holes 19mm apart



DPDT Panel Mount Miniature

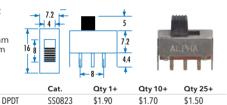
- Size 35(L) x 13(W)mm
- Actuator height 6mmMounting holes 28mm
- apart
- 3mm diameter holes for screws



		Cat.	Qty 1+	Qty 10+	Qty 25+
50VDC 500mA	DPDT	SS0821	\$1.90	\$1.70	\$1.50

DPDT PCB Mount Sub Miniature

- Size 16(L) x 7.2(W)mm
- Actuator height 5mm



SPDT Micro Slide Switch

This is the tiniest slide switch we have ever seen, and we're sure it will be a great addition for all those projects that need a small on-off switch. The 0.1" pitch suits protoboard and even breadboards, and allows multiple switches to be stacked side-by-side if needed.

• 0.5A at 24VDC

125VDC 300mA

- 6.5mm body height
- 5mm lead length- long enough to bend for right angle
- SPDT (centre common) for changeover contacts
- 11.5mm x 10mm x 2.5mm

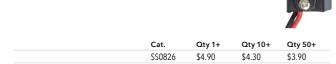


		Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC, 0.5A	SPDT	SS0834	\$2.20	\$1.95	\$1.75

Inline JST Switch Kit

JST switches and connectors provide an unobtrusive solution to power control. They are small so will fit comfortably in the chassis of an RC vehicle. This kit includes a JST switch with a male and female JST connector on each end attached to a 140mm wire. Great for hobby applications such as model trains, remote control helicopters and cars, or simple around the house projects that require discrete and simple switching.

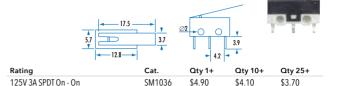
- Includes mounting bracket and screws
- Switch dimensions: 25(L) x 25(H) x 9(D)mm



MICRO SWITCHES

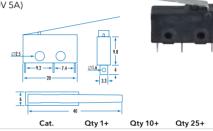
SPDT Subminiature

- Actuator length 14mm
- Rated at 125V 3A Solder terminals



SPDT Miniature

- Actuator length 37.5mm
 Rated at 125V 5A (250V 5A)
- Solder terminals



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125V 5A SPDT	SM1038	\$5.90	\$5.20	\$4.70



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 10A SPDT On - On	SM1040	\$4.50	\$3.90	\$3.60

SPDT Standard Micro Switch

Standard sized micro switch without lever. ideal for those applications where a lever is not needed, and a simple button is all that is required. Suits SP0662, SP0664, SP0665, SP0666 and SP0669 Arcade Pushbuttons.

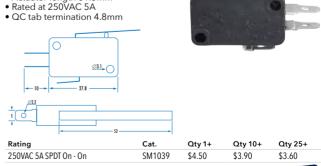
• SPDT (Changeover) contacts rated at 5A, 240V



	Cat.	Qty 1 +	Qty 10+	Qty 25+	
240VAC 5A SPDT	SM1050	\$4.00	\$3.60	\$3.20	

SPDT Extended Actuator

• Actuator length 51.3mm



Are you in the trade?

For professionals engaged in electron ics & construction-related industries.



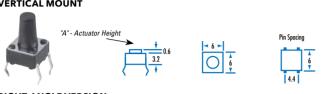
PUSHBUTTON & TACTILE SWITCHES

TACTILE SWITCHES

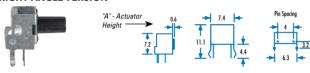
SPST Micro

Specifications	ALL MODELS
Rating	12VDC 50mA
Operating Temp	-20°C to 70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	$100 M\Omega$ Min at $100 VDC$
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary

VERTICAL MOUNT



RIGHT-ANGLE VERSION



Vertical Mount	Actuator	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	0.7mm	SP0600	\$1.50	\$0.99	\$0.90
12VDC 50mA	1.4mm	SP0601	\$1.50	\$0.99	\$0.90
12VDC 50mA	3.5mm	SP0602	\$1.50	\$0.99	\$0.90
12VDC 50mA	6.0mm	SP0603	\$1.50	\$0.99	\$0.90
Right angle	Actuator	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	0.7mm	SP0604	\$1.50	\$1.00	\$0.95

/ 25+
95
95
95
95
֡

SPST PCB Mount

Withstand Voltage: • 250VAC for 1 minute

Contact Arrangement:

• SPST N.O Momentary action

Specifications	BOTH MODELS
Rating	12VDC 50mA
Operating Temperature	-20°C to 70°C
Contact Resistance	100mΩ Max.
Inculation Posistance	100MO Min at 100VDC

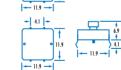
See website for full

SQUARE

ROUND







Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Square	SP0608	\$1.50	\$1.30	\$1.20
12VDC 50mA	Round	SP0609	\$1.50	\$1.30	\$1.20

SPST PCB - 2 Pin Specifications SP0611 Rating 12VDC 50mA Operating -16°C to 60°C Temperature **Contact Resistance** 100mΩ Max. 100MΩ **Insulation Resistance** Withstand Voltage 250VAC for 1 minute Contact Arrangement 2 pin SPST N.O Action Momentary Size 6 x 3.5 x 3.5mm Rating Action Cat Qty 1+ Qty 10+ Qty 25+ 12VDC 50mA PCB Mount SP0611 \$1.50 \$0.99 \$0.90

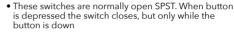
SPST SMD - Pack of 10



SPST PCB Mount Snap Action - Round



PCB Mount, single pole, momentary. Suitable for keyboards, security systems, etc. Available in 5 colours.



• Contact rating 10mA/35VDC. Pin spacing 5mm



120

7.4

Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
35VDC 10mA	Red	SP0720	\$1.90	\$1.50	\$1.30
35VDC 10mA	Black	SP0721	\$1.90	\$1.50	\$1.30
35VDC 10mA	Yellow	SP0722	\$1.90	\$1.50	\$1.30
35VDC 10mA	White	SP0723	\$1.90	\$1.50	\$1.30
35VDC 10mA	Green	SP0724	\$1.90	\$1.50	\$1.30

SPST PCB Mount with LED

• Vertical

Metallic look

12VDC 50mA

Specifications	ALL MODELS
Rating	12VDC 50mA
Operating Temperature	-50°C to 70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	$100 M\Omega$ min at $100 VDC$
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary
LED Power Supply	3.5-4VDC @ 25mA

Withstand Voltage	250VAC fo	or 1 minute		111	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Contact Arrangement	: SPST N.O.	SPST N.O.		'	- 5	
Action	Momenta	Momentary			 7.5 	
LED Power Supply	3.5-4VDC	3.5-4VDC @ 25mA				
Rating (Colour	Cat.	Qty 1+	Qty 10+	Qty 25+	
12VDC 50mA F	Red	SP0612	\$5.50	\$4.70	\$4.10	
12VDC 50mA (Green	SP0613	\$5.50	\$4.70	\$4.10	

SP0614

\$5.50

\$4.70

\$4.10

SPST PCB Mount - Vertical with LED

Blue

Blue

Specifications	ALL N	IODELS	4	
Rating	12VDC	50mA	1	
Operating Temperature	-50°C to	70°C	ALC:	
Contact Resistance	100mΩ	2 Max.	/	
Insulation Resistance	e 100MΩ	min at 100VDC		١
Withstand Voltage	250VAC	for 1 minute		ı
Contact Arrangeme	nt SPST N.	0.		U
Action	Momen	tary		
LED Power Supply	3.5-4VD	C @ 25mA		
Rating	Colour	Cat.	Qty 1+	
12VDC 50mA	Red	SP0620	\$4.90	
12VDC 50mA	Green	SP0621	\$4.90	\$4

SP0622

\$4.90

\$4.10

\$3.70

12VDC 50mA

DIP SWITCHES

DIP Switches

- End stackableMoulded 0.3" IC packing outline for automatic insertion
- Smaller sized
- Twin contact design
- Gold plated contact & tin plated terminals
 Switching: 25mA 24VDC
 Non-Switching: 100mA 50VDC

- Contact Resistance: Initial $50m\Omega$ max
- Dielectric Strength: 500VDC min 1 minute



6.5

	1 2 3 4 5 6 7 8	2.54		₹ 8.5 →	1 2 3 4
Туре	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
2 Way	4 pin DIP	SM1012	\$1.90	\$1.70	\$1.50
3 Way	6 pin DIP	SM1013	\$2.50	\$1.90	\$1.70
4 Way	8 pin DIP (low profile)	SM1020	\$3.10	\$2.75	\$2.45
6 Way	12 pin DIP	SM1015	\$2.90	\$2.30	\$2.10
8 Way	16 pin DIP (low profile)	SM1024	\$3.40	\$3.05	\$2.70
10 Way	20 pin DIP	SM1017	\$3.50	\$2.90	\$2.60
12 Way	24 pin DIP	SM1018	\$3.90	\$3.10	\$2.90

Binary Coded DIL Rotary Switches

These tiny switches are designed for PCB use. These pins are moulded in and fully sealed. The body is moulded in UL 94V-0 flame-retardant plastic.





			- 6	
Specifications	BOTH MODELS			
Contact Rating	Switching 25mA@24V	DC		
Non Switching	100mA @50VDC (dry o	ontact switching	j) (
Contact Resistance	100mΩ max		4 4	1
Insulation Resistance	1,000MΩ (min) at 100	OVDC		
Dielectric Strength	250VAC for 1 minute			
Temp (Operating)	-25°C to 70°C			
Max Rotational Torque Required	500gf-cm			
Operational Life	2,000 steps/min, switc	hing		
Solderability After flux	230 +/-5°C for 5 +/- 0	.5 sec		
Binary Coded Hex	Cat.	Qty 1+	Qty 10+	Qty 25+

Operational Life	2,000 steps/min, switching					
Solderability After flux	230 +/-5°C for 5 +/- 0.5 sec					
Binary Coded Hex	Cat.	Qty 1+	Qty 10+	Qty 25+		
0 through F output	SR1220	\$5.80	\$5.20	\$4.60		
Binary Coded Decimal	Cat.	Qty 1+	Qty 10+	Qty 25+		
0 through 9 output	SR1222	\$5.80	\$5.20	\$4.60		

Rotary Encoder with Pushbutton

Quadrature encoded rotary encoder with pushbutton can be used to provide an intuitive interface to your next project. Similar to the interface found on many 3D Printers. PCB mount with five terminals. Thirty detents/ fifteen pulses per revolution. Encoder has two SPST contacts sharing a common, pushbutton switch is SPST/NO.

- Shaft with flat for grub screw
- Three terminals for rotary encoderTwo independent terminals for pushbutton
- Two large mechanical lugs for PCB mounting



	Cat.	Qty 1+	Qty 10+	Qty 25+
Rotary Encoder with Pushbutton	SR1230	\$10.90	\$9.90	\$8.90

Product Data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!



Sealed PCB Rotary Switches

These switches have a removable ring with tab which can be inserted into the switch several ways to your particular requirements. For example, if you purchased a 1 pole x 12 way (max) switch you could convert it to, say, 1 pole 7 way between stops. They have a standard 1/4," shaft. Panel hole 10mm. Contact rating 150mA at 240VAC.



Cutout 9.5mm.

Configured from 1 pole 2 position through to 1 pole 12 position.

2 POLE

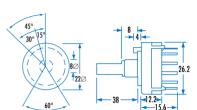
From 2 pole 2 position to 2 pole 6 position

From 3 pole 2 position to 3 pole 4 position

4 POLE

- 4 pole, 2 and 3 position
- Break before make



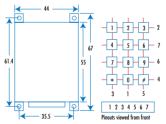




Rating	Туре	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 150mA	1 pole	SR1210	\$5.80	\$5.20	\$4.60
240VAC 150mA	2 pole	SR1212	\$5.80	\$5.20	\$4.60
240VAC 150mA	3 pole	SR1214	\$5.80	\$5.20	\$4.60
240VAC 150mA	4 pole	SR1216	\$5.80	\$5.20	\$4.60

12 Key Numeric Keypad

This telephone style keypad has many uses. It has 0-9, *, # - 3 x 4 way matrix.



2	1	2	3
7 6	4	5	6
4	7	8	9
	*	0	#
		op to to the team	

Specifications	SP0770					
Contact Rating	20mA, 24VDC		Managa			
Contact Resistance	200Ω max					
Life	1,000,000 cycles per k	ey				
Contact	Conductive rubber					
Dimensions (Key Face)	44(W) x 54(H) x 5(D)m	m				
Colour	White keys on black ba	White keys on black background				
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+		
24VDC 20mA	SP0770	\$14.90	\$13.90	\$11.90		

Find Out More In Store

Our staff offer friendly and helpful service. We're here to help.

PIEZO BUZZERS

PIEZO BUZZERS

PCB Mount Mini PC Piezo

Ideal when you need to fit an alarm in a small place. It has its own built-in drive circuit. It offers low current consumption and it's sealed for DIP soldering & washing

PCB MOUNT PIEZO BUZZER

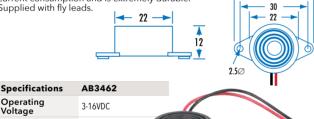


				0.5	5.5
Specifications	AB3459			9.5	0.0
Operating Voltage	9 - 14V		4	3	
Rated Voltage	12VDC				
Current	30mA				•
SPL	85dBA/10cm				,
Frequency	2.3kHz				
Weight	2.4 gram				
Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
12mm	9.5mm	AB3459	\$5.90	\$5.20	\$4.70

→ 16 → 5 **24**Ø 0 15 AB3458 **Specifications** Operating 3 - 30VDC Voltage **Operating Freq** 3.8 kHz **Current Draw** 16mA max SPI 85dB/30cm/12V Dia Qty 10+ Heiaht Cat Qtv 1+ Qtv 4+ 24mm 16mm AB3458 \$5.80 \$5.20 \$4.60

PIEZO BUZZER - MINI

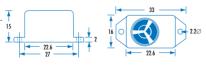
It offers medium to loud sound output, low current consumption and is extremely durable. Supplied with fly leads.



Specifications	AB3462				
Operating Voltage	3-16VDC				
Rated	12VDC				
Freq	3.3kHz				
Max Current at 12V	15mA				*
SPL	90dB				
Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
22mm	12mm	AB3462	\$5.20	\$4.65	\$4.15

SURFACE MOUNT BUZZER

Handy solid state buzzer operates between 5-15VDC. Used in many applications. Note: This is an electromechanical buzzer

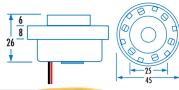


Specifications AB3452 Operating Voltage 5-15VDC Rated 12VDC Max Current at 12V 40mA SPL 79dB/1m						
Rated 12VDC Max Current at 12V 40mA SPL 79dB/1m	Specifications	AB3452				
Max Current at 12V 40mA 5PL 79dB/1m	Operating Voltage	5-15VDC		(0)		
12V 40MA SPL 79dB/1m	Rated	12VDC				
		40mA				
Die Wilde Heisels Cot Oreda Oreda Oreda	SPL	79dB/1m			Jane 1	
Dia. Width Height Cat. Qty 1+ Qty 4+ Qty 10-	Dia. Width	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
31mm 16mm 15mm AB3452 \$5.20 \$4.65 \$4.15	31mm 16mm	15mm	AB3452	\$5.20	\$4.65	\$4.15

p.B163 - tech talk on decibels

DUAL SOUND PIEZO INDUSTRIAL TYPE

Similar to SONALERT earpiercing sound. Non inductive, operates from 1 - 13VDC. Now with both continuous tone and pulsed tone. Red & black for continuous, yellow & black for pulse tone. Ideal for most signalling applications.

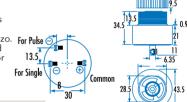


Specifications	AB3456				
Operating Voltage	1 - 13VDC	7			
Rated Voltage	12VDC				
Current	Single tone 3 20mA	5mA, pulse	E	-	
Frequency	2.9kHz	2.9kHz			2
SPL	105dB/30cm 100dB/30cm	105dB/30cm single, 100dB/30cm pulse			
Pulse Rate	2 - 7 pulse/se	2 - 7 pulse/sec		_	
Mounting	1 x 3mm scre	1 x 3mm screw			
Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
45mm	26mm	AB3456	\$11.90	\$10.90	\$9.90

PIEZO REVERSING ALARM AUTOMOTIVE TYPE

Available with both continuous and pulse tone. These are a heavy duty panel mounted piezo. For Pulse They are very rigidly made and terminals are via screw down or 6.35mm quick disconnect.

• Similar to SONALERT®

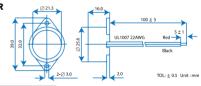


			30	1	
Specifications	AB3464				
Operating voltage	4 - 16V			1	100
Rated voltage	12V				
Max Current @ 12V	25 single, 20	pulse mA	4		
Frequency	2.9kHz			10	111311
SPL @ 12V	95 single, 90	pulse dB			
Pulse Rate @ 12V	0.8 - 1.2 pulse	e/sec	`	10	
Mounting Hole	29mm				
Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
43.5mm	34.5mm	AB3464	\$16.90	\$14.90	\$13.90

WEATHERPROOF BUZZER 6-14VDC

Designed to withstand exposure to rain when mounted outdoors.

 Material: ABS UL-94 1/16 HB High Heat



Specifications	AB3466				
Operating Voltage	6-14VDC				
ated Voltage	12VDC		í		
rrent	35mA @ 12V	(max)			
PL	85dB / 1m	(F)		MIN.	
Frequency	2.8kHz 500H				
Dia.	Height	Cat.	Qty	/ 1+	1+ Qty 4+
26mm	16mm	VB3466	\$22.00	١	1 ¢20.00

4kHz Audio Transducer

This electro-acoustic transducer contains no electronics making it a versatile component for electronics projects. Apply an AC voltage input to the wires and it will generate sound pressure waves based on the frequency. Connect the wires to a ciruit input and it will generate an AC voltage when stimulated with a sound pressure wave making an efficient knock or vibration sensor. Supplied in a black plastic casing for easy mounting it can

also be deconstructed to suit alternate applications Without a doubt this is one of our most popular components for a multitude of electronics projects.

- Resonant frequency: 4kHz +/- 0.5kHz
- Electrostatic Capacitance: 25,000pf +/- 30%

Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+	
30mm	5mm	AB3442	\$4.50	\$4.05	\$3.60	

HEATSINKS

TO-220 Mini (6073B Type)

• Equivalent to popular 6073 type



20°C/W

12°C/W

Т



HH8502

HH8504

\$1.45

\$1.90



Qty 4+

\$1.30

\$1.50



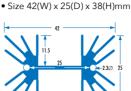


LIFETIME GUARANTEE	

Qty 10+

\$1.15

Heavy duty version of the heatsinks described in other column. Solderable screw studs



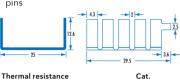
Heavy Duty TO-3P (ML97 Type)



LIFETIME GUARANTEE

TO-220 (6021 Type)

• Solderable PCB mounting





Heatsink Pin Grid Array

Thermal resistance

7.5°C/W

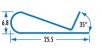
An aluminium heatsink with adhesive thermal transfer tape. Suitable for Raspberry Pi and other BGA devices.

• 15(L) x 15(W) x 11(H)mm





The heatsink will just clip over a device when required for permanent or temporary installation.







\$1.30

	← 14.5 →			•	
Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+	
30°C/W	HH8503	\$1.70	\$1.50	\$1.35	

Thermal resistance Otv 4+ Otv 10+ Cat. Otv 1+ 10°C/W HH8581 \$4.50 \$4.05 \$3.60 **Heatsink Pin Grid Array**

Cat.

HH8526

TO-220 10mm

These PCB mount heatsinks have two 'screw flute' channels to aid in fastening to a board or surface.

• 16(W) x 21.8(D) x 10(H)mm





	backing from the pre-mounted thermal transfer
	tape, press the Star LED (or whatever device)
	to the heatsink and SHAZAM!! It's ready to
	go! Don't be fooled by the compact size. The
FE	"pin grid array" design provides excellent low
	thermal resistance and heat dissipation. Sold
	individually.
ETIME	• Dimensions: 21(L) v 21(W) v 6 2(H)mm

poled by the compact size. The " design provides excellent low ance and heat dissipation. Sold Dimensions: 21(L) x 21(W) x 6.2(H)mm

LIFETIME GUARANTEE

Qty 10+

\$4.45

Thermal resistance

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
30°C/W	HH8514	\$2.50	\$1.80	\$1.60

5.9°C/W HH8580 \$5.60

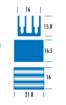
Cat.

It doesn't get guicker or easier than this! Just peel the

TO-220 15.8mm

Same dimensions as our HH8514 only with longer fins. These PCB mount heatsinks have two tinned pins to aid in fastening the sink to a board or surface.

- 16(W) x 21.8(D) x 15.8(H)mm
- Pins 2mm dia. x 3mm long





LIFE
LIFETIME GUARANTEE

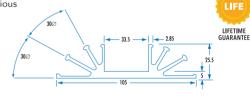
LIFE

LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
19°C/W	HH8516	\$2.00	\$1.80	\$1.60

High Efficiency Fan Type

Available in various lenaths. • 105mm wide



Qty 1+

Qty 4+

\$5.00



HH8573

Length	Thermal resist.	Cat.	Qty 1+	Qty 4+	Qty 10+
55mm	2.5°C/W	HH8570	\$9.90	\$8.90	\$7.90
72mm	2.2°C/W	HH8572	\$12.90	\$11.90	\$9.90
135mm	1.1°C/W	HH8573	\$20.90	\$18.90	\$16.90

PC Mount TO-3P

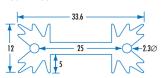
Will accept up to TO-3P size flat pack transistors. (This includes TO-220). Includes 2 PC pins, which help stabilise the heatsink and allow you to solder to PCB pads.

25MM HIGH (6098 TYPE)

• Size 33.6(W) x 12(D) x 25(H)mm Cat. HH8520

40MM HIGH (6099 TYPE)

• Size 33.6(W) x 12(D) x 40(H)mm Cat. HH8522





Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
17°C/W	HH8520	\$2.00	\$1.80	\$1.60
11°C/W	HH8522	\$3.40	\$3.05	\$2.70

A170

HEATSINKS & ACCESSORIES

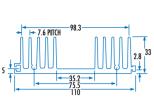
HEATSINKS CONTINUED

Versatile Heavy Duty

Allows horizontal & vertical mounting

• Length 72mm

Undrilled



• Dimensions: 150(L) x 75(H) x 46(D)mm



LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
2.2°C/W	HH8566	\$22.90	\$20.90	\$17.90

Diecast

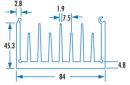




Fan Assisted-Type Heatsink

This heatsink is designed to mate with itself to form a tunnel. The heatsink extrusion has a screw flute centre to enable 4 x No.6 self-tapping screws to fasten an 80mm standard type fan on one (or both) end/s to drive air through the heatsink assembly. It is ideal for high power amplifiers and power supplies. The entire assembly, including fan/s can still fit inside a 2 x Rackunit (88mm) enclosure. The heatsink also features ribbed fins for extra surface area, a 4mm thick base to enable thread tapping and small vee grooves on 5mm centres to facilitate mounting hole location. The centre groove, for example, is directly below the middle fin.

• Two standard lengths are available, black anodised



Suitable fans are YX2512 (12VDC) or YX2510 (240VAC).



LIFETIME GUARANTEE

Thermal Characteristics			
Assembly Type	Cooling Mode	Rating (approx)	
Single Length	Convection	0.83°C/W	
Tunnel Assembly	Convection	0.70°C/W	MADE IN
Tunnel Assembly	Fan Assisted (single)	0.35°C/W	*
Tunnel Assembly	Fan Assisted (dual)	0.30°C/W	

Length (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
225	HH8530	\$33.90	\$29.90	\$26.90
254	HH8532	\$38.90	\$34.90	\$30.90

HEATSINK ACCESSORIES

Transistor Clamps

To clamp (TO-220) devices to a heatsink. Fasten down with a #6 self tapper or a 3mm machine screw & nut.





			Cat.	Qty 1+	Qty 10+	Qty 50+
Single	TO-220 Transistor Clamps	Pk 10	HH8600	\$10.90	\$9.80	\$7.60
Single	TO-220 Transistor Clamps	Pk 100	HH8602	\$31.90	\$28.70	\$22.30
Dual	TO-220 Transistor Clamps	Pk 100	HH8607	\$34.90	\$30.90	\$23.90
Dual	TO-220 Transistor Clamp	ea	HH8610	\$1.80	\$1.60	\$1.25

Thermal Transfer Tape 100 x 100 x 0.5mm - Pk 2

When it comes to attaching devices like star LED modules to heatsinks, it's often not easy because they don't have screw 'eyes' like a TO220 transistor package. Using this thermal transfer tape, it's a breeze. The material is self adhesive and provides good thermal conductivity making it easy for chipsets, LED modules, memory modules etc. 2pcs of 100mm x 100mm sheets supplied. Just cut to size. 0.5mm thickness.

Specifications	NM2790
Thermal Conductivity	1.6 W/m-k
Flammability Level	UL94V-0
Working Temperature Range	-60°C to +250°C
Insulation Strength	>7,000V/mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
100x100mm	NM2790	\$16.90	\$14.90	\$13.90

Heatsink Compound

Heat conducting paste facilitates heat transfer from semiconductors to heatsinks. One 10g tube will do up to 30 TO-3 package transistors.

• Non electrically conductive



	Cat.	Qty 1+	Qty 4+	Qty 10+
10g Tube	NM2010	\$5.20	\$4.65	\$4.15
50g Syringe	NM2011	\$12.90	\$11.30	\$10.30
150g Tube	NM2012	\$24.90	\$22.30	\$19.70

Heatsink Compound - 3g Syringe with Applicator

Features Nano Diamond for high thermal conductivity. It is electrically insulated so that you can apply to all electronic components and IC's and protects from short circuits.

- Massively improves thermal conductivity
- Complete insulation • Thermal conductivity:
- >3.8W/m-K
- Thermal resistance: <0.087°C-in²/W
- Operating temperature: -50°C to 240°C

-/	Nano Diamond	
æ,	Thermal Compound	
		1

	Cat.	Qty 1+	Qty 4+	Qty 10+
3g Tube	NM2018	\$9.90	\$8.90	\$7.90

25% Silver Heatsink Compound - 1.5 Gram Tube

Contains 25% Silver for more efficient heat transfer. Ready to use syringe. Please note that Silver

Heatsink Compound does conduct electricity and care should be taken when being used.



	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5g Tube	NM2013	\$7.90	\$7.20	\$6.50

Heatsink Compound - Adhesive

Non electrically conductive. One 5 gram tube will adhere up to 16 TO-3 package transistors.



	Cat.	Qty 1+	Qty 4+	Qty 10+
5g Tube	NM2014	\$9.90	\$8.50	\$7.50

pick m€

FANS

	Size (mm)	Depth (mm)	Operating Voltage	Bearing Type	Air Volume (CFM)	Speed (RPM)	Connection	Housing	Tacho	Page
	5VDC AXIAL FAN									
YX2500	30	6	5VDC	Ball	3.09	8,000	Flylead	Plastic	No	A174
	12VDC AXIAL FANS									
YX2501	30	6	12VDC	Ball	3.09	8,000	Flylead	Plastic	No	A174
YX2503	40	10	12VDC	Sleeve	5.4	6,000	Flylead	Plastic	No	A174
YX2502	40	20	12VDC	Sleeve	7.6	7,000	Flylead	Plastic	No	A174
XC5054	40	10	12VDC	Ball	23.8	6,000	Flylead & Plug	Plastic	Yes	A174
YX2504	50	15	12VDC	Sleeve	16.6	5,500	Flylead	Plastic	No	A174
XC5055	50	10	12VDC	Ball	11.6	5,500	Flylead & Plug	Plastic	Yes	A174
YX2505	60	25.4	12VDC	Sleeve	20	4,000	Flylead	Plastic	No	A174
YX2512	80	25.4	12VDC	Sleeve	34	3,000	Flylead	Plastic	No	A175
YX2513	80	25.4	12VDC	Ball	34	3,000	Flylead	Plastic	No	A175
YX2523	80	25.4	12VDC	Ball	42	3,100	Flylead	Plastic	No	A175
/X2580*	80	25	12VDC	Magnetic	28.1	2,000	Flylead	Polycarbonate	No	A173
X2570*	80	25	12VDC	Ball	20.7	1,600	3 Pin Molex	Polycarbonate	No	A173
YX2521	90	25	12VDC	Sleeve	59	3,000	Flylead	Plastic	No	A175
/X2582*	92	25	12VDC	Magnetic	39.8	2,000	Flylead	Polycarbonate	No	A173
X2572*	92	25	12VDC	Ball	31.3	1,500	3 Pin Molex	Polycarbonate	No	A173
YX2518	120	25.4	12VDC	Ball	88	3,000	Flylead	Plastic	No	A175
YX2522	120	25	12VDC	Ball	88	3,000	Flylead	Plastic	No	A175
/X2584*	120	25	12VDC	Magnetic	64.3	1,500	Flylead	Polycarbonate	No	A173
X2574*	120	25	12VDC	Ball	37	1,000	3 Pin Molex	Polycarbonate	No	A173
	12VDC BLOWER FANS									
YX2532	97 x 94	33	12VDC	Ball	26	3,600	Flylead	Plastic	No	A173
	24VDC AXIAL FAN									
YX2542	80	25.4	24VDC	Ball	40	3,200	Flylead	Plastic	No	A175
	240VAC AXIAL FANS									
YX2509	80	25.4	240VAC	Sleeve	23	2,800	Flylead	Metal	No	A176
YX2510	80	38	240VAC	Sleeve	30	2,800	Flylead	Metal	No	A176
YX2508	80	38	240VAC	Ball	30	2,800	Flylead	Metal	No	A176
YX2516	120	25.4	240VAC	Sleeve	80	2,350	Solder	Metal	No	A176
YX2514	120	38	240VAC	Sleeve	105	3,000	Solder	Metal	No	A176
YX2517	120	38	240VAC	Ball	105	3,000	Solder	Metal	No	A176
YX2520	150	55	240VAC	Ball	230	3,400	Use PS4160	Metal	No	A176

FAN ACCESSORIES

Plastic Fan Guard / Filter Kits

Foam filter prevents dust particles entering the fan. Rated to UL 94V-0.

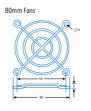
 We recommend periodic cleaning of the foam filter to prevent clogging and restricting air flow

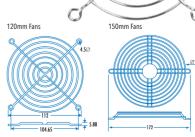
• Available in 3 sizes



Width	Cat.	Qty 1+	Qty 4+	Qty 10+
60mm	YX2550	\$8.90	\$7.90	\$6.90
80mm	YX2552	\$8.90	\$7.90	\$6.90
120mm	YX2554	\$9.90	\$8.50	\$7.50

Fan Finger Guards





Width	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2511	\$4.50	\$4.05	\$3.60
120mm	YX2515	\$5.90	\$5.20	\$4.70
150mm	YX2525	\$10.90	\$9.50	\$8.50

12VDC MAGLEV FANS

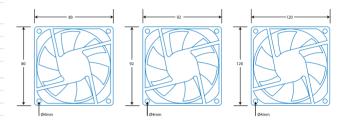
Super Long-Life Low-Noise MagLev Bearing Case Fans

Featuring a patented Nanoflux bearing that incorporates magnetic levitation (Maglev) technology and precise manufacturing, these premium quality fans ensure an extremely long operational life of 100,000hrs at 40°C (even longer at 25°C). Not only does the unique self-lubricating Maglev bearing design offer extremely long life, but also extremely low noise levels compared to traditional fans ball bearings, and also offers the ability for the fan impeller to be removed for cleaning. The fan impeller itself has a winglet tip design and is UV reactive. Rubber fan mounts are also included to eliminate fan motor vibrations entering the case, further reducing noise levels. Dust/waterproof to IP54, these fans are sure to last even in harsh conditions.

- Voltage: 12VDC (5VDC Starting Voltage)
 Black: Earth, Red: 12V+, Yellow: Tacho output (1 pulse/rev)
- Bearings: Nanoflux magnetic levitation
- Housing: Polycarbonate
- Impellers: UV reactive polycarbonate
- Connections: Flylead 3 pin molex

	p				
Specifications	YX2580		YX2582	YX2	584
Current (mA)	100		180	220	
Dimensions (mm)	80 x 80 x 25		92 x 92 x 25	120 x	120 x 25
Air Volume (m³/ min)	0.8		1.13	1.82	
Air Volume (CFM)	28.1		39.8	64.3	
Speed (RPM)	2000		2000	1500	
Noise (dBA)	21		22.5	25	
Size		Cat.	Qty 1+	Qty 4+	Qty 10+
80mm		YX2580	\$34.90	\$30.90	\$27.90
92mm		YX2582	\$38.90	\$34.90	\$30.90
120mm		YX2584	\$43.90	\$38.90	\$34.90





12VDC HYDRODYNAMIC FANS

Silent Hydrodynamic Bearing Case Fans

Designed to provide additional airflow without increasing noise levels these Designed to provide administration with other flars have precisely balanced blades and long-life hydro-dynamic bearing. Ultra-low noise making these fans are perfect for a home theatre PC, or ventilating the amplifier wedged into your entertainment unit. To further improve silence, rubber fan mounts are included to eliminate fan motor vibrations inducing vibration noise.

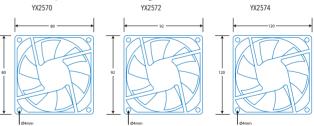
- Voltage: 12VDC
 Rated to last for 50,000 hours at 40°C (more at 25°C)
- Bearings: Ball (hydrodynamic)
- Housing / Impellers: Polycarbonate
- Connections: Flylead 3 pin molex



WARRANTY

Specifications	YX2570		YX2572		YX25	74
Current (mA)	80		130		80	
Dimensions (mm)	80 x 80 x 25		92 x 92 x 25		120 x 1	20 x 25
Air Volume (m³/min)	0.59		0.89		1.05	
Air Volume (CFM)	20.7		31.3		37	
Speed (RPM)	1600		1500		1000	
Noise (dBA)	18		20		20.2	
Size		Cat.	Qty 1+	Qt	y 4+	Qty 10+
80mm		YX2570	\$24.90	\$22	2.30	\$19.70
92mm		YX2572	\$34.90	\$31	1.90	\$27.90
120mm		YX2574	\$39.90	\$35	5.90	\$31.90





12VDC BLOWER FAN

97mm x 94mm Blower Fan Ball Bearing - 2 Wire

Ideal for applications where space is limited but high air volume is required.

Specifications	YX2532
Voltage (V)	12VDC
Current (mA)	860
Dimensions (mm)	97 x 94 x 33
Air Volume (m³/min)	0.74
Air Volume (CFM)	26
Speed (RPM)	3600
Noise (dBA)	51
Bearing	Ball Race
Housing & Impeller	Plastic, fibreglass filled
Connections	Flylead



YX2532 \$39.90

97x94mm

Where's My Local Jaycar Store?

Use our store finder on our website. With over 300 Jaycar stores and Authorised Resellers, just type in your postcode of area to find the closest one to you.

\$35.90

\$31.90

5V/12VDC FANS:

- Housing / Impeller: Plastic GRP Filled
- Connections: Flylead



on all our fans





5VDC 30mm Narrow -Ball Bearing 2 Wire



12VDC 30mm Narrow -**Ball Bearing 2 Wire** 30 -24 -





12VDC

30 x 30 x 6.6

100

0.108 3.09

8000

Ball Race

Qty 1+

\$18.90

Qty 4+

\$16.90

Qty 10+

\$14.90

21

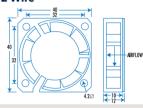
Qty 10+

\$14.90



40mm -2 Wire

40mm Narrow -2 Wire



Specifications
Voltage (V)
Current (mA)
Dimensions (mm)
Air Volume (m³/min)
Air Volume (CFM)
Speed (RPM)
Noise (dBA)
Bearing System

35Ø	4.200 (\$\frac{10}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}
YX2502	YX2503
12VDC	12VDC
100	80
40 x 40 x 20	40 x 40 x 10
0.215	0.16
7.6	5.4
7000	6000
32	30
Sleeve	Sleeve

Qty 10+

\$19.70

Qty 1+

\$22.90



on all our fans

YX250 5VDC

30 x 30 x 6.6

120

0.087

3.09 8000

21

Ball Race

Qty 1+

\$18.90

Qty 4+

\$16.90

WARRANTY





Qty 1+

\$24.90

Qty 4+

\$22.30



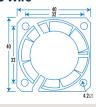
Qty 4+

\$20.30

Qty 10+

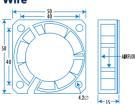
\$17.90

40mm Ball Bearing -3 Wire





50mm Narrow -2 Wire





XC5055

2 Wire **←** 25.4 → AIRFLOW

Specifications
Voltage (V)
Current (mA)
Dimensions (mm)
Air Volume (m³/min)
Air Volume (CFM)
Speed (RPM)
Noise (dBA)
Bearing System

	XC50
	12VDC
	80
	40 x 40
)	0.16
	5.4
	6000
	30
	Ball Ra

Qty 1+

\$19.90

12
XC5054
12VDC
80
40 x 40 x 10
0.16
5.4
6000
30
Ball Race

YX2504 12VDC 190 0.7 23.8 5500 30 Sleeve

12VDC 130 50 x 50 x 15 50 x 50 x 10 0.33 11.6 5500 31 Ball Race Qty 4+ Qty 10+ Qty 1+ Qty 4+ Qty 10+ Qty 1+ Qty 4+ \$17.90 \$15.90 \$22.90 \$20.30 \$17.90 \$19.90 \$17.90

YX2505 12VDC 130 60 x 60 x 25.4 0.57 20 4000 30 Sleeve Qty 10+ Qty 1+ Qty 4+ Qty 10+ \$15.90 \$22.90 \$20.30 \$17.90

A174 ⊶

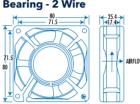
jaycar.co.nz

VENTILATION FANS

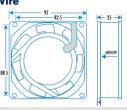


2 Wire

| 00 | -254 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 | -47.6 |







11870				4.312								171
Specifications	YX2512	!		YX2513	3		YX2523	3		YX2521		
Voltage (V)	12VDC			12VDC			12VDC			12VDC		
Current (mA)	200			200			200			320		
Dimensions (mm)	80 x 80 x 2	80 x 80 x 25.4			80 x 80 x 25.4			80 x 80 x 25.4		90 x 90 x 25		
Air Volume (m³/min)	0.97			0.97			1.2			1.67		
Air Volume (CFM)	34			34			42			59		
Speed (RPM)	3000			3000			3100			3000		
Noise (dBA)	32			32			35			36		
Bearing System	Sleeve		Ball Race	Ball Race			Ball Race		Sleeve			
	Qty 1+	Qty 4+	Qty 10+	Qty 1+	Qty 4+	Qty 10+	Qty 1+	Qty 4+	Qty 10+	Qty 1+	Qty 4+	Qty 10+
	\$22.90	\$20.30	\$17.90	\$24.90	\$22.30	\$19.70	\$34.90	\$30.90	\$27.90	\$24.90	\$22.30	\$19.70
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120mm Ball Bearing -

IP55



24VDC FANS

80mm NARROW Ball Bearing Version - 2 Wire

Life expectancy 100,000 hours @ 25°C.





<u> </u>	<u>_</u>	<u></u> .				Ø4.5
Specifications	YX2522			YX2518		
Voltage (V)	12VDC			12VDC		
Current (mA)	380			360		
Dimensions (mm)	120 x 120 x 2	?5		120 x 120 x	25.4	
Air Volume (m³/min)	3			2.3		
Air Volume (CFM)	88			88		
Speed (RPM)	3000			3000		
Noise (dBA)	45			42		
Bearing System	Ball Race			Ball Race		
	Qty 1+	Qty 4+	Qty 10+	Qty 1 +	Qty 4+	Qty 10+
	\$46.90	\$41.90	\$36.90	\$35.90	\$32.40	\$28.90
	\$40.7U	J41.7U	\$30.70	\$33.70	\$32.40	\$20.70

Bearing - 2 Wire

Specific	cations		YX2542						
Voltage	(V)		24VDC						
Current	(mA)		130						
Dimens	ions (m	m)	80 x 80 x 2	5.4					
Air Volu	ıme (m³/	/min)	1.1						
Air Volu	ıme (CF	M)	40						
Speed (RPM)		3200						
Noise (d	BA)		35						
Bearing	ı		Ball Race						
Housing	9		Plastic, fibreglass filled						
Impelle	r		Plastic, fibreglass filled						
Connec	tions		Flylead						
Voltage	Size	Cat.	Qty 1+	Qty 4+	Qty 10+				
24VDC	80mm	YX2542	\$36.90	\$33.20	\$29.50				

Use with our 240VAC fans with two

lugs for power connection. Moulded plug to suit fan one end, and bare wires at the other.

POWER LEADS

Fan Power Lead

• Length 1.2m • Suits YX2514, YX2516 & YX2517

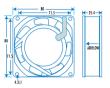
PS4160 \$4.90

240VAC FANS

- Voltage (V): 240VAC
- Impeller: Plastic, fibreglass filled

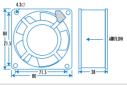


80mm Narrow - 2 Wire









80mm Ball Bearing - 2 Wire



Specifications	YX2509)		YX2510)		YX2508				
Current (mA)	120			80			100	100			
Dimensions (mm)	80 x 80 x 2	25.4		80 x 80 x 3	80 x 80 x 38			80 x 80 x 38			
Air Volume (m³/min)	0.67			0.88	0.88			0.88			
Air Volume (CFM)	23	23			30			30			
Speed (RPM)	2800	2800			2800			2800			
Noise (dBA)	33	33			35			32			
Bearing	Sleeve			Sleeve			Ball				
Housing - Diecast	Diecast zin	c, aluminium		Aluminiur	Aluminium, powdercoated			Aluminium, powdercoated			
Connections	Flylead			Flylead	Flylead			Flylead			
Other	-			•			Life - 100,000 hrs@25°C				
	Qty 1+	Qty 4+	Qty 10+	Qty 1+	Qty 4+	Qty 10+	Qty 1+	Qty 4+	Qty 10+		
	\$36.90	\$33.20	\$29.50	\$36.90	\$33.20	\$29.50	\$46.90	\$41.90	\$36.90		

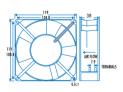


\$4.10

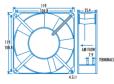
\$3.70



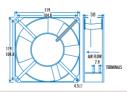
120mm - Solder Lugs



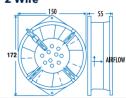




120mm Ball Bearing -**Solder Lugs**



150mm Ball Bearing -2 Wire



							1.00		-			ш	
Specifications	YX2514	ı		YX251	6		YX2517	7		YX2520)		
Current (mA)	125			120			125			290			
Dimensions (mm)	120 x 120	x 38		120 x 120	120 x 120 x 25.4			120 x 120 x 38			150 x 172 x 55		
Air Volume (m³/min)	3			2.3			3			6.57			
Air Volume (CFM)	105			80			105			230			
Speed (RPM)	3000			2350			3000		3400				
Noise (dBA)	47	47			44			47			53		
Bearing	Sleeve			Sleeve			Ball Race			Ball Race			
Housing - Diecast	Solder Lug	JS .		Solder Lug	Solder Lugs			Solder lugs			Flylead		
Connections	Life - 100,	000 hrs@25°C		Life - 100,	Life - 100,000 hrs@25°C			Life - 100,000 hrs@25°C			Life - 100,000 hrs@25°C		
Other										Sleeve			
	Qty 1+	Qty 4+	Qty 10+	Qty 1+	Qty 4+	Qty 10+	Qty 1+	Qty 4+	Qty 10+	Qty 1+	Qty 4+	Qty 10+	
	\$34.90	\$30.90	\$27.90	\$36.90	\$33.20	\$29.50	\$45.90	\$41.40	\$36.90	\$99.90	\$89.90	\$79.90	

A176 ← Freecall order hotline: 0800 452 922 jaycar.co.nz

ABS INSTRUMENT CASES WITH PURGE VALVES:

These robust cases come with purge valves for an airtight seal, ribbed ABS construction, stainless steel hinge pins, O-ring seals and very solid catches. The lids are lined with removable egg-shell foam and they come with pluck foam insert with an extra layer of egg-shell foam. Ideal for your camera gear, test, medical or scientific equipment.



ABS Instrument Case MPV0

Features extremely strong catches with metal pins, it's sealed with a rubber gasket, and inside is pluck foam to shape the internal storage space for a specific object. Lanyard included.



ABS Instrument Case MPV1

Tiny size for small instruments or test equipment.



ABS Instrument Case MPV2

Small size for a single SLR camera, DMM or other test equipment.





ABS Instrument Case MPV4

Medium size to take extra camera and lenses or larger gear such as oscilloscopes or multiple pieces of test equipment.



ABS Instrument Case MPV7

Large size. This case also has moulded slots to take dividers and two layers of pluck foam. It's also deep enough to take a pro SLR camera body. Cat. HB6385



ABS Instrument Rolling Case MPV8

Ideal for the travelling professional. Like a conventional piece of luggage, it has a retractable handle and built-in wheels to take the load. It's also carry-on size. Cat. HB6387



	Internal - W x D x H(mm)	External - W x D x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
MPV0	164 x 119 x 40	173 x 125 x 50	HB6389	\$31.90	\$28.70	\$25.50
MPV1	186 x 123 x 75	210 x 135 x 90	HB6388	\$48.90	\$44.00	\$39.10
MPV2	300 x 220 x 90	330 x 280 x 120	HB6381	\$89.90	\$80.90	\$71.90
MPV4	395 x 320 x 117	430 x 380 x 154	HB6383	\$119.00	\$106.90	\$94.90
MPV7	480 x 355 x 186	515 x 415 x 200	HB6385	\$159.00	\$142.90	\$126.90
MPV8	510 x 292 x 175	530 x 355 x 225	HB6387	\$229.00	\$205.90	\$182.90

TOOL & INSTRUMENT CASES

IPX8 Waterproof ABS Cases

Black waterproof ABS cases for storing or transporting just about anything including Smartphones, radios, wallets, delicate electronic devices and more. They are fully protected from water, dust, and sludge thanks to a gasket seal and powerful latches. The insides are lined with a layer of

protective foam to insulate against bumps and knocks. Bring one on your next camping trip and keep those valuables protected.

- Lanyard included
- Waterproof & Shockproof



Size	L(mm)	W(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	182	120	42	HB6421	\$24.90	\$22.40	\$19.90
Medium	182	120	75	HB6423	\$31.90	\$28.70	\$25.50
Large	210	120	90	HB6425	\$43.90	\$39.50	\$35.00

WATERPROOF ENCLOSURES

IP66 Industrial ABS Enclosures

Gasket seals, stainless steel hardware and IP66 rated for use in industrial, marine and other harsh environments. The closures have a locking catch that engages to positively hold the lid closed until disengaged. Each enclosure includes a 1.8mm galvanised chassis for mounting DIN rail, switchgear, relays or circuit breakers.







Lid	L(mm)	W(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Opaque	200	200	130	HB6404	\$46.90	\$41.90	\$36.90
Transparent	175	125	75	HB6412	\$43.90	\$38.90	\$34.90

ABS INSTRUMENT CASES

Plastic Instrument Case

- Modern design case in matt finish surface
- Ideal for desktop instrumentsTop and base is in grey, with dark grey front and rear panels
- Moulded in high impact ABS plastic UL-94-HB
- Includes 4 pcs screws and rubber feet







High Impact ABS Instrument Case

This top quality case is ideally suited for instrumentation, telecommunication, or just to make your projects look fabulous

- ABS front and rear panels
- Top and bottom have a tongue and groove joint and are lightly textured which offers a non-scratch surface & keeps the high quality finish.

End panels

HR5970

Black

- Slots provided for vertical mounting of PCBs Bosses are provided for horizontal mounting of PCBs
- Screws supplied to secure lid to base

35

GREY ABS - UL94HB W(mm) D(mm) H(mm)

110

140



95 158 47 HB5922 \$15.90 \$13.90 \$12.90	W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	95	158	47	HB5922	\$15.90	\$13.90	\$12.90

Pro Quality ABS Instrument Cases

LIGHT GREY - DARK GREY END PANELS

Our superb instrument cases will give your projects the professional appearance they deserve. Internal mounting posts enable a wide combination of PCBs, transformers, etc., to be accommodated, PCB guide rails provided internally allow vertical PCB positioning to

- Removable front and rear panels, attractive textured finish one side and plain the other (Enables direct engraving, silk screen printing etc., to plain side)
- Top and bottom split apart for ease of construction or service. Feet included
- Great for test instruments and other high grade projects

W(mm)	D(mm)	H(mm)		Cat.	Qty 1+	Qty 4+	Qty 10+
200	160	70	Non-vented	HB5912	\$20.90	\$18.90	\$16.90
253	190	82	Vented	HB5910	\$32.90	\$28.90	\$25.90

ABS ENCLOSURES

Jiffy Boxes

Manufactured from ABS plastic, these jiffy boxes not only look great, they have been designed to incorporate everything our customers wanted in a constructor's box. Sizes are compliant with industry standards externally and

- Constructor's box. Sizes are compliant with industry standards exerting allowed by CB fitting internally.

 Impervious, dimple-free finish provides good adhesion for screen printing.

 Lids feature a 5mm grid of 'centre punch' type points on the underside for quick & accurate drilling.

 Lids also feature a 10mm grid of scribed lines providing an easy and.
- Lids also reature a Turnin grid of scribed lines providing an easy and precise guide for cutting or filing cut-outs
 PCB guides in the sides of the box have snap-in locators. Eliminates the need for stand-off hardware when mounting boards horizontally
 Box also has a grid of 'centre punch' type points on the base of the inside
 Supplied with lid fixing screws

		Cat.	Qty 1+	Qty 4+	Qty 10+
UB1	Black	HB6011	\$5.90	\$5.30	\$4.70
UB2	Black	HB6012	\$8.90	\$8.00	\$7.10
UB3	Black	HB6013	\$5.20	\$4.65	\$4.15
UB3	Grey	HB6023	\$5.20	\$4.65	\$4.15
UB5	Black	HB6015	\$4.00	\$3.60	\$3.20
UB5	Grey	HB6025	\$4.00	\$3.60	\$3.20
UB5	Clear	HB6005	\$4.00	\$3.60	\$3.20

BLUE (TRANSLUCENT IMAC® LOOK)

		Cat.	Qty 1+	Qty 4+	Qty 10+
UB5	Blue	HB6004	\$4.50	\$3.60	\$3.30

		To Fit PCB (mm)	
Size	External Dimensions (mm)	Vertical	Horizontal
UB1	158 x 95 x 53	89 x 48	134 x 88
UB2	197 x 113 x 63	105 x 57	172 x 104
UB3	130 x 68 x 44	63 x 39	107 x 62
UB5	83 x 54 x 31	50 x 27	62 x 49

Flanged ABS Lids Version of Jiffy Boxes

These professional enclosures are identical to the UB3 & UB5 jiffy boxes, except they feature flanged lids for bulkhead/surface mounting. The exclusive moulded Jaycar drilling template on the inside of the lid is included, as are the screw hole plugs to hide the lid screws. Ideal for automotive, security, audio/video plus a wide variety of other applications.

- Lid moulded, drill assist pilot holes on a 5 &10mm pitch
- Moulded in ABS plastic
- Exclusive to Jaycar

			PCB (mn	1)	
Size	External Dimensions (mm)	Verti	cal	Horizo	ntal
UB3	130 x 68 x 44	63 x 39	1	107 x 62	!
UB5	83 x 54 x 31	50 x 27	1	62 x 49	
		Cat.	Qty 1+	Qty 4+	Qty 10+
UB5	Black	HB6016	\$4.40	\$3.95	\$3.50
UB3	Black	HB6014	\$5.90	\$5.30	\$4.70
UB3	Grey	HB6024	\$5.90	\$5.30	\$4.70





A178 ⊶

ABS ENCLOSURES CONTINUED

IP65 Sealed ABS Enclosures

- Made with ABS material
- Moulded in dark grey
- Operating temperature: -20°C to +80°C
- Bosses on internal base allow fixing of PCBs horizontally, or connection of terminals etc
- The lid and base incorporate a tongue and groove sealing system with a neoprene gasket
- Lid fixing screws are M-4 stainless steel (non-magnetic) into threaded brass inserts
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust
- Some sizes also available with external flange to allow mounting after the box has been sealed Designed to IP65 of IEC529 and NEMS 4 (dust and





W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB6120	\$7.90	\$7.10	\$6.30
64	58	35 Flange	HB6121	\$8.90	\$8.00	\$7.10
115	65	40	HB6122	\$13.90	\$12.90	\$10.90
115	65	40 Flange	HB6123	\$15.90	\$13.90	\$12.90
115	65	55	HB6124	\$15.90	\$13.90	\$12.90
115	65	55 Flange	HB6138	\$18.90	\$16.90	\$14.90
115	90	55	HB6126	\$18.90	\$16.90	\$14.90
115	90	55 Flange	HB6127	\$20.90	\$18.90	\$16.90
171	121	55 Flange	HB6125	\$27.90	\$24.90	\$21.90
171	121	55	HB6128	\$25.90	\$22.90	\$20.90
171	121	80	HB6129	\$27.90	\$24.90	\$21.90
222	146	55	HB6130	\$32.90	\$28.90	\$25.90
222	146	75	HB6132	\$37.90	\$33.90	\$29.90
240	160	90	HB6134	\$46.90	\$41.90	\$36.90

DIN Rail Enclosure 6U with Clear Lid

This enclosure is made of light-grey ABS and has a clip to attach it to a standard DIN rail. We've found it's the perfect size for an Arduino* Uno or even a Raspberry Pi, and will make a perfect way to protect and mount projects based around Arduino* and Raspberry Pi. Includes a clear lid for a diagnostic display as even seems.

clear lid for a diagnostic display or even some indicator LEDs.

- 6U DIN rail mounting
- Measures 95 x 106 x 58mm incl. clip
- Side knockouts for terminal connections







ABS Enclosures with Snap-in Hinged Lid

Versatile ABS plastic enclosures with self-locking construction that provides easy opening and closing of the enclosure without use of additional tools. The rubber cable entry/exit also means you don't need to get the drill out in order to run cabling from the box.



HR6434

- Four internal moulded standoffs allow you mount a PCB horizontally
 Available in light grey and black colours, and made from high strength ABS plastic
- Full Specifications see website

WARRANTY

External dimensions (excluding flange):

HB6431 & HB6433 - 91(L) x 79(W) x 45(H)mm HB6432 & HB6434 - 91(L) x 122(W) x 69(H)mm



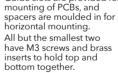


Ca	ıt. Qty	/1+ Qty	4+ Qty 10)+
y Cable Entry HB	\$6431 \$7.9	90 \$7.1	0 \$6.30	
y Cable Entry HB	36433 \$7.9	90 \$7.1	0 \$6.30	
y Cable Entry HB	36432 \$12	.90 \$11.	90 \$9.90	
Cable Entry HB	36434 \$12	.90 \$11.	90 \$9.90	
	y Cable Entry HE y Cable Entry HE y Cable Entry HE	y Cable Entry HB6431 \$7.9 y Cable Entry HB6433 \$7.9 y Cable Entry HB6432 \$12	y Cable Entry HB6431 \$7.90 \$7.10 y Cable Entry HB6433 \$7.90 \$7.10 y Cable Entry HB6432 \$12.90 \$11.	y Cable Entry HB6431 \$7.90 \$7.10 \$6.30 y Cable Entry HB6433 \$7.90 \$7.10 \$6.30 y Cable Entry HB6432 \$12.90 \$11.90 \$9.90

IP54 High Quality Polystyrene Enclosures

This range includes a small flat case that is ideal for remote control transmitters, up to a case that is ideal for bench test equipment, and the best thing is that they are not expensive.

All are supplied with removeable front and rear panels which are light grey in colour, with the rest of the case dark grey. They are moulded in ABS, conform to IP54 and IEC529 and NEMA4 with respect to moisture and dust proof sealing and flame retardant to UL94-VO. Guide slots are provided for vertical





DARK GREY ABS - FLAME RETARDENT TO UL94

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
90	50	16	HB6030	\$6.90	\$6.20	\$5.50
90	50	24	HB6031	\$7.90	\$7.10	\$6.30
120	60	30	HB6032	\$11.90	\$10.90	\$9.90
150	80	30	HB6034	\$18.90	\$16.90	\$14.90
190	100	40	HB6036	\$25.90	\$22.90	\$20.90

Find Out More In Store

Our staff offer friendly and helpful service. We're here to help.

ABS ENCLOSURES CONTINUED

Bulkhead ABS Mount Cases

BLACK - HIGH IMPACT ABS

4 cases in the range, all with moulded brackets at each end to mount the case.

Colour is black

HB6065/68 Have moulded in square cable entries on each end

HB6075 The base snaps into place, and there is a round 10mm dia hole in one side for cable entry.

HB6080 The base mounts with 4 self tapping screws.



have side cable entries on each end

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
65	38	27	HB6065	\$3.80	\$3.40	\$3.00
72	44	28	HB6068	\$4.00	\$3.60	\$3.20
88	69	33	HB6075	\$5.50	\$4.95	\$4.40
112	67	36	HB6080	\$7.90	\$7.10	\$6.30

EXTRA DEEP BULKHEAD ABS MOUNT CASE

The base mounts to case with 4 self tapping screws included.



72 50	63	HB6081	\$8.90	\$8.00	\$7.10

BULKHEAD MOUNT CASE WITH CLEAR FRONT / TOP

This case has mounting brackets at each end that are easily removeable if you do not wish to mount the case. It has a clear plastic front/top plate that

allows you to view the contents of the box. This plate is screwed on from the base/back and cannot easily be removed from the front.



W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
120	70	30	HB6082	\$16.90	\$14.90	\$13.90



40yrs of of enclosures

Snap Fit ABS Enclosures - Black

A range of black ABS enclosures with side flanges allowing wall, or even ceiling mount. Snap fit design locks together to enclose your circuit board or project inside.



WARRANTY Material: ABS

• Wall mount holes: 2 x 4.5mm Dia



Cat.	Dimensions (Internal)			Dimens	Dimensions (External)			
HB6006	45.44(W)	x 45.84(D) x 1	8.0(H)mm	70.4(W) x	70.4(W) x 50.5(D) x 27.0(H)mm			
HB6007	65.44(W) x 45.84(D) x 33.0(H)mm			90.4(W) x	90.4(W) x 50.5(D) x 42.0(H)mm			
HB6008	75.44(W)	75.44(W) x 76.04(D) x 33.5(H)mm			100.6(W) x 80.7(D) x 43.5(H)mm			
HB6009	100.44(W	100.44(W) x 66.04(D) x 41.1(H)mm			127.0(W) x 70.7(D) x 50.5(H)mm			
W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+		
70.4	50.5	27.0	HB6006	\$5.80	\$5.20	\$4.60		
70.4 90.4			HB6006 HB6007					
	50.5	27.0		\$5.80	\$5.20	\$4.60		

Enclosure Potting Box

- Protect your electronic assemblies against shock, temperature, humidity and chemicals
- Moulded in high impact ABS plastic
- Black in colour
- Flammability rating: UL-94HB





W(mm) D(mm) H(mm) Cat. Qty 1+ Qty 4+ Qty 10+ HB5202 39 39 27 \$1.90 \$1.60 \$1.40 \$0.95 45 30 25 HB5200 \$1.50 \$1.00 50 20 HB5204 \$3.90 \$3.10 \$2.70

Grey Vented ABS Enclosures

A range of vented ABS enclosures to protect your project from unwanted fingers or objects making contact with your electronics, but still allowing for airflow (or moisture for environment sensor

applications). The enclosures are moulded from grey ABS plastic and have a satin textured finish. Four moulded standoffs hold your circuit board in place (screws not included - use #2 x 3/16" or similar), and slots in the base makes it easy to wall-mount the enclosure. Wiring can be easily passed through by knocking out a small round section in its base with a screwdriver. The snap-fit assembly makes it easy to close or open the enclosure without the need for tools

• ABS plastic with UL94-HB rating

- Satin texture finish
- Designed to meet IP30
- Grey in colour



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	Cat.	Qty 1+	Qty 4+	Qty 10+
40 x 40 x 20mm	HB6114	\$4.50	\$4.05	\$3.60
60 x 60 x 20mm	HB6116	\$5.90	\$5.30	\$4.70
80 x 80 x 20mm	HB6118	\$6.90	\$6.20	\$5.50

SPECIALITY PLASTIC ENCLOSURES

Light Grey with Mounting Flange

SPECIALTY PLASTIC ENCLOSURES

Sealed Polycarbonate Enclosures - IP65

- Made with Polycarbonate material moulded in light grey
 Operating temperature: -40°C to +125°C
 The lid and base incorporate a tongue and groove sealing system with a neoprene gasket
- Lid fixing screws are M-4 stainless steel (non-magnetic) into threaded brass inserts
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust
 Designed to IP65 of IEC 529 and NEMA 4 (dust and hose proof)
- Internal guide slots for mounting PCB assemblies vertically (not on HB6230)

LIGHT GREY

W (mm)	D (mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
82	80	55	HB6230	\$16.90	\$14.90	\$13.90
115	65	40	HB6212	\$16.90	\$14.90	\$13.90
115	90	55	HB6216	\$20.90	\$18.90	\$16.90
171	121	55	HB6218	\$29.90	\$26.90	\$23.90
171	121	80	HB6224	\$31.90	\$27.90	\$24.90
222	146	55	HB6220	\$39.90	\$35.90	\$31.90

LIGHT GREY WITH CLEAR LID

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
171	121	55	HB6248	\$29.90	\$26.90	\$23.90

LIGHT GREY WITH MOUNTING FLANGE

W (mm)	D (mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB6211	\$14.90	\$13.90	\$11.90
115	65	40	HB6213	\$19.90	\$17.90	\$15.90
115	90	55	HB6217	\$22.90	\$20.90	\$17.90
171	121	55	HB6219	\$31.90	\$27.90	\$24.90
171	121	80	HB6221	\$34.90	\$30.90	\$27.90

Remote Control Case

This case is ideal for a TV remote control. The case includes a battery compartment with sliding cover. It will accept either 2 x AA batteries or a 9V. The terminals for the AA batteries are included. The transmitting end of the box is supplied with 2 plastic panels, one the colour of the box, the other a red perspex for use with Infrared

Includes Battery Contact Kit & Translucent Panel

BLACK - HIGH IMPACT ABS UL94VO

135 70 24 No HB5610 \$11.90 \$10.70 \$9.50	'	W(mm)	D(mm)	H(mm)	Flame REtard	Cat.	Qty 1+	Qty 10+	Qty 20+
		135	70	24	No	HB5610	\$11.90	\$10.70	\$9.50





W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
115	65	40	HB6249	\$19.90	\$17.90	\$15.90
115	90	55	HB6251	\$22.90	\$20.90	\$17.90
115	121	80	HB6223	\$34.90	\$30.90	\$27.90

Keyfob Remote Control Case

Includes the case and hardware, which consists of pushbutton knobs, battery terminals, LED cover and keyring.





32 50 10 HB5605 \$4.60 \$4.10 \$3.65	W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	32	50	10	HB5605	\$4.60	\$4.10	\$3.65

METAL INSTRUMENT CASES

Metal Enclosures

Aluminium cases finished in grey with black finish steel cover. Ventilated and supplied with rubber feet.







W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
102	150	61	HB5442	\$20.90	\$18.90	\$16.90
160	184	70	HB5446	\$27.90	\$24.90	\$21.90

Professional Bench Enclosure

This cabinet has pre-punched ventilation holes, metal thread fastening screws, aluminium prepainted front and rear panels, up to the minute styling and facilities to mount internal hardware without recourse to drilling lids. Apart from this, the enclosure features cabinet heights that comply with standard IEC297 rack heights. Even though it is not a rack cabinet many components (especially transformers) are made to comply to these height dimensions.

• Grey in colour

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
304	279	88	HB5556	\$94.90	\$84.90	\$75.90

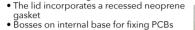


METAL ENCLOSURES - DIECAST

IP65 Sealed Diecast Aluminium Boxes

This range of boxes compare in quality to those English and Canadian ones that are VERY expensive. These are ideal for housing electronic assemblies, pneumatic, hydraulic & electrical devices for commercial & industrial environments. Provides effective shielding of EMI and RFI.

- Aluminium diecast resistant to atmospheric
- Administrative decast resistant to atmospheric and marine corrosion
 Designed to IP65 of IEC529 and NEMA4 (dust and hoseproof)
 Wall mounting holes and lid fixing screws are
- outside the sealing area



horizontally or connection of earth grounding, etc Internal guide slots for mounting PCB assemblies vertically

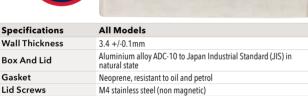
 Screw holes for lid mounting are roll threaded

• Captive, recessed lid screws

Heat rating up to 400°C

Manufacturers and bulk users - contact Jaycar for bulk pricing.





Ground	Ground Screw And Washer, Copper Plated.										
W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+					
64	58	35	HB5030	\$15.90	\$13.90	\$12.90					
115	65	30	HB5036	\$20.90	\$18.90	\$16.90					
115	65	55	HB5040	\$25.90	\$22.90	\$20.90					
115	90	55	HB5042	\$29.90	\$26.90	\$23.90					
171	121	55	HB5046	\$43.90	\$38.90	\$34.90					
222	146	55	HB5050	\$46.90	\$41.90	\$36.90					

Economy Diecast Aluminium Boxes

Excellent screening properties for EMI and RFI

Ideal for projects subject to weatherMade from 380 Die-cast aluminium alloy (BS1490 LM24)

Close fitting flanged lids

WARRANTY

· Ideal for instruments, meter cases, filter networks etc.

Robust, light weight and easy to machine

 Ideal for projects involving heat as the case itself makes an excellent heatsink







W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4 +	Qty 10+
51	51	32	HB5060	\$12.90	\$11.90	\$9.90
111	60	30	HB5062	\$15.90	\$13.90	\$12.90
111	60	54	HB5063	\$19.90	\$17.90	\$15.90
119	94	34	HB5067	\$20.90	\$18.90	\$16.90
119	94	57	HB5064	\$26.90	\$23.90	\$21.90

IP65 Sealed Diecast Aluminium Boxes -Flanged Mount

Sealed aluminium enclosures for external use are provided with flanges and holes for wall mounting. Lid fixing bolts are located outside the sealing area to ensure better sealing. Made from aluminium alloy ADC-10 (JIS) and provides protection against dust and moisture (IP65). Features racks and guides for mounting a PCB horizontally or vertically.



W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
90	36	30	HB5029	\$16.90	\$14.90	\$13.90
64	58	35	HB5031	\$18.90	\$16.90	\$14.90
115	90	55	HB5044	\$32.90	\$28.90	\$25.90
171	121	55	HB5041	\$46.90	\$41.90	\$36.90

METAL ENCLOSURES - ALUMINIUM

Aluminium Enclosure with Clear Ends

This great looking enclosure is sturdy and sleek. The extruded aluminium construction is ideal for both strength and heat-sinking if necessary. Provided with clear end caps to allow hole-less mounting of displays and diagnostic LEDs.

- Measures 115mm x 51mm x 119mm
- Slots for easy PCB mounting
- Clear end caps
- · Sealing gaskets



Cat.	Qty 1+	Qty 4+	Qty 10+	
HB6294	\$44.90	\$39.90	\$35.90	

Blue Aluminium Enclosure with Clear Ends

This great looking enclosure is sturdy and sleek. The extruded aluminium construction is ideal for both strength and heat-sinking if necessary. Provided with clear end caps to allow hole-less mounting of displays and diagnostic LEDs.

- Measures 177mm x 61mm x 89mm
- Slots for easy PCB mounting
- Clear end caps
- Sealing gaskets



Cat.	Qty 1+	Qty 4+	Qty 10+
HB6296	\$57.90	\$51.90	\$45.90



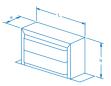
OUICK REFERENCE TRANSFORMER SELECTION

Magnetic core technology for mains transformers has been stable for many years. This is not to say that manufacturing technology has not improved. Our range of transformers may be stable, but that does not mean that our products don't change. We are constantly refining these transformers. We have two major categories Power El Core and Power Toroidals. This table gives an overview with key technical Specifications for easy reference and selection.

Primary Voltage (V): 240VAC
Conforms to AS/NZ 61558.2.6

• Primary internal thermal fuse protection





Power El Core

	Secondary					Con	nection	D	ime	nsior	ıs (m	m)			
	Туре	VA	Voltage (V)	Current (A)	Winding	Regulation (%)	Primary	Secondary	а	d	1	w	h	(kg)	Page
MM2017	2840	1.35	9, 4.5	150mA	Centre Tapped	9	Fly Leads	Fly Leads	45	32	37	16	32	0.120	A184
MM2018	2854	3.6	24, 12	150mA	Centre Tapped	12	Fly Leads	Fly Leads	53	41	43	22	36	0.230	A184
MM2006	2851	1.9	12.6, 6.3	150mA	Centre Tapped	8	Fly Leads	Fly Leads	46	32	37	16	32	0.112	A184
MM2007	2855	4.5	30, 15	150mA	Centre Tapped	8	Fly Leads	Fly Leads	53	44	43	28	36	0.280	A184
MM2013	2853	7	12.6, 6.3	500mA	Centre Tapped	10	Fly Leads	Fly Leads	61	38	51	20	43	0.310	A184
MM2002	2155	15	15, 12.6, 9.5, 8.5, 7.5, 6.3	1A	Multi-Tapped	10	Fly Leads	Solder Lugs	72	52	59	32	51	0.665	A184
MM2008	6672	30	30, 27.5, 24, 20, 17.5, 15	1A	Multi-Tapped	11	Fly Leads	Solder Lugs	85	62	69	35	59	0.924	A184
MM2005	2165	60	30, 24, 21, 18, 15, 12, 9	2A	Multi-Tapped	8	Fly Leads	Solder Lugs	85	65	69	35	59	0.995	A184
MM2011	2154	18	18, 15, 12	1A	Multi-Tapped	8	Fly Leads	Solder Lugs	72	56	59	32	51	0.650	A184
MM2014	2167L	60	(12, 9) (x2)	2.5A(x2)	Multi-Tapped/Dual	10	Fly Leads	Solder Lugs	82	76	69	48	59	1.30	A184
MM2004	2156	30	15, 12, 9, 6	2A	Multi-Tapped	10	Fly Leads	Solder Lugs	82	60	69	35	59	0.92	A185
MM2012	2158	72	24	3A	Single	9	Fly Leads	Fly Leads	82	76	69	48	59	1.30	A185
MM2015	2170	100	(15, 12) (x2)	3A (x2)	Multi-Tapped/Dual	7	Fly Leads	Solder Lugs	91	76	80	44	68	1.60	A185

Note 1: All El Core Transformer Fly Leads 200mm

Note 2: The dual winding models can be connected in parallel to obtain twice the output current. The windings must be connected in phase.

Power Toroidals

			Secondary				Connection Dimensions (mm)					
	VA	Voltage (V)	Current (A)	Winding	Regulation (%)	Primary	Secondary	OD	ID	н	(kg)	Page
MT2082	20	9 (x2)	1.11A(x2)	Dual	14	Fly Leads	Fly Leads	75	27	32	0.51	A183
MT2084	20	12 (x2)	0.83A(x2)	Dual	14	Fly Leads	Fly Leads	75	27	32	0.51	A183
MT2086	20	15 (x2)	0.66A(x2)	Dual	15	Fly Leads	Fly Leads	75	27	32	0.51	A183
MT2112	160	12 (x2)	6.66A(x2)	Dual	10	Fly Leads	Fly Leads	110	34	44	1.80	A183

Note 1: All Toroidal Transformer Fly Leads 150mm.

Note 2: The secondary windings can be connected in parallel to obtain twice the output current. The windings must be connected in phase.

TOROIDALS: WHY A TOROID?

- Smaller size and weight to meet modern 'slimline' requirements
- Low electrically induced noise demanded by compact equipment
 High efficiency enabling conservative rating whilst maintaining size advantages
- Simple, quick, single bolt mounting

The Toroidal transformer is now accepted as the standard in the industry, quality made to ISO 9000 overtaking the obsolete laminated type. Industry has been quick to recognise the advantage toroidals offer in size, weight and lower radiated field. Current ratings on toroidal transformers. Can be used in 2 ways:

A) Both secondary windings in series - double the volts

B) Both secondary windings in parallel - double the amps.

Note: If connected in parallel, the windings must be connected in phase.

20VA LOW PROFILE: MT2082/MT2084/MT2086

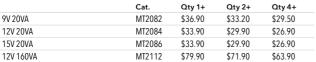
• Dimensions: 75(O/D) x 27(I/D) x 32(H)mm

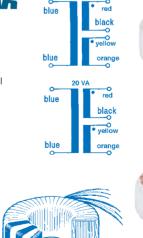
The height is only 32mm, which means they will fit into a 44mm rack case.

160VA TOROID: MT2112

• Dimensions: 110(O/D) x 34(I/D) x 44(H)mm

MT2082 9+9V 1.11A 2.22A MT2084 12+12V 0.833A 1.66A MT2086 15+15V 0.666A 1.333A MT2112 12+12V 6.66A 13.33A	Cat.		Secondary Series	Secondary Parallel
MT2086 15+15V 0.666A 1.333A	MT2082	9+9V	1.11A	2.22A
	MT2084	12+12V	0.833A	1.66A
MT2112 12+12V 6.66A 13.33A	MT2086	15+15V	0.666A	1.333A
	MT2112	12+12V	6.66A	13.33A







A183

TRANSFORMERS CONTINUED 15V (CT) 6.3V (CT) 240V 240V



1.35VA, Max 150mA

24V, 3.6VA, 150mA Centre **Tapped Type 2854**

3.6VA, Max 150mA

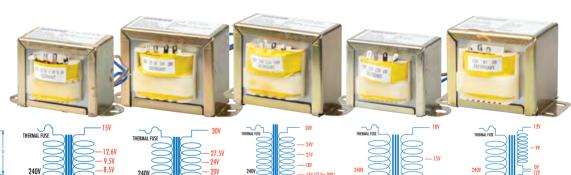
12.6V CT, 1.9VA, 150mA Centre Tapped Type 2851

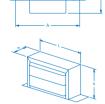
1.9VA, Max 150mA

30V CT, 4.5VA, 150mA Centre **Tapped Type 2855**

12.6V CT, 7VA, 500mA Centre **Tapped Type 2853**

Specifications	MM20	17		MM20	18		MM20	06		MM20	07		MM20	13	
Туре	2840			2854			2851			2855			2853		
Secondary winding (s)	Centre Ta	pped		Centre Ta	pped		Centre Ta	oped		Centre Ta	pped		Centre Ta	pped	
Total VA rating	1.35VA			3.6VA			1.9VA			4.5VA			7VA		
Secondary Voltages	9V, 4.5V (CT)		24V, 12V	(CT)		12.6V, 6.3	BV(CT)		30V, 15V(CT)		12.6V, 6.	3V(CT)	
Secondary Current (max)	150mA			150mA			150mA			150mA			500mA		
Magnetising Current	30mA			40mA			15mA			40mA			40mA		
Temp rise above ambient at rated power	60°C			65°C			40°C			40°C			40°C		
Regulation	9%			12%			8%			8%			10%		
Weight	120g			230g			112g			280g			310g		
Secondary Connection	200mm F	ly leads		200mm F	ly leads		200mm F	ly leads		200mm F	ly leads		200mm	Fly leads	
Dimensions (mm)	A45, D32	, L37, W16	, H32	A53, D41	, L43, W22,	H36	A46, D32	L37, W16,	H32	A53, D44	, L43, W28,	H36	A61, D38	3, L51, W20	, H43
	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+
	\$9.90	\$8.90	\$7.90	\$10.90	\$9.90	\$8.90	\$9.90	\$8.90	\$7.90	\$11.90	\$10.90	\$9.90	\$11.90	\$10.90	\$9.90





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6.3 - 15V, 15VA, 1A Multi-Tapped

7 5V

- 20V -17.5V

15 - 30V, 30VA, 1A Multi-Tapped
Type 6672

- 15V (CT for 30V) - 12V (CT for 24V) 9V (CT for 18V)

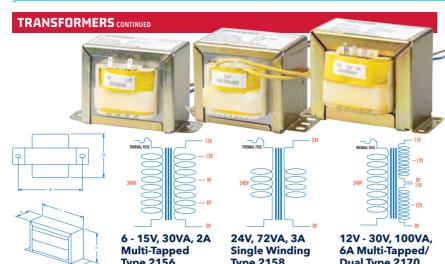
9 - 30V, 60VA, 2A **Multi-Tapped** Type 2165

9V - 24V, 60VA, 5A 12V - 18V, 18VA, 1A Multi-Tapped Multi-Tapped/Dual Type 2167L

	Type 2	. 133		iype	00/2		туре	2 103		туре	2154		iype	210/L	
Specifications	MM20	02		MM20	08		MM20	05		MM20	11		MM20	14	
Туре	2155			6672			2165			2154			2167L		
Secondary winding (s)	Multi-Tap	ped		Multi-Tap	oed		Multi-Tap	ped		Multi-Tap	ped		Multi-Tap	ped/dual	
Total VA rating	15VA			30VA			60VA			18VA			60VA		
Secondary Voltages	15V, 12.6 7.5V(CT),	V, 9.5V, 8.5 6.3V(CT)	5V,	30V, 27.5 17.5V, 15	V, 24V, 20V, V(CT)		30V, 24V, 12V(CT), 9	21V, 18V, 1 V(CT)	5V(CT),	18V, 15V,	12V		12V, 9V (x2)	
Secondary Current (max)	1A			1A			2A			1A			2.5A (x2)		
Magnetising Current	30mA			40mA			60mA			40mA			65mA		
Temp rise above ambient at rated power	45°C			60°C			60°C			60°C			65°C		
Regulation	10%			11%			8%			8%			10%		
Weight	665g			924g			955g			650g			1300g		
Secondary Connection	Solder lu	gs		Solder lug	js		Solder lug	js		Solder lug	gs		Solder lu	gs	
Dimensions (mm)	A72, D52	, L59, W32	, H51	A85, D62,	L69, W35,	H59	A85, D65,	L69, W35,	H59	A72, D56	, L59, W32,	H51	A82, D76	, L69, W48	, H59
	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4 +
	\$14.90	\$13.90	\$11.90	\$22.90	\$20.90	\$17.90	\$34.90	\$30.90	\$27.90	\$14.90	\$13.90	\$11.90	\$34.90	\$30.90	\$27.90

A184 ⊶ Freecall order hotline: 0800 452 922 jaycar.co.nz

TRANSFORMERS

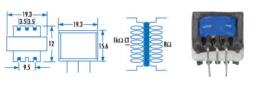


	iype 2	150		iype	2158		Duai	iype 2	170
Specifications	MM20	04		MM20	12		MM20	15	
Туре	2156			2158			2170		
Secondary winding (s)	Multi-Tap	ped		Single			Multi-Tap	ped/dual	
Total VA rating	30VA			72VA			100VA		
Secondary Voltages	15V, 12V,	9V, 6V(CT)		24V			15V, 12V	(x2)	
Secondary Current (max)	2A			3A			3A(x2)		
Magnetising Current	60mA			60mA			80mA		
Temp rise above ambient at rated power	60°C			65°C			70°C		
Regulation	10%			10%			7%		
Weight	920g			1300g			1600g		
Secondary Connection	Solder lug	gs		200mm F	ly leads		Solder lu	gs	
Dimensions (mm)	A82, D60	, L69, W35	, H59	A82, D76	, L69, W48,	H59	A91, D76	5, L80, W44	, H68
	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+	Qty 1+	Qty 2+	Qty 4+
	\$22.90	\$20.90	\$17.90	\$34.90	\$30.90	\$27.90	\$39.90	\$35.90	\$31.90

MINIATURE TRANSFORMERS

Miniature Transformer STANDARD

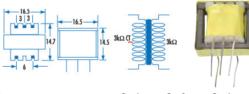
- Primary/secondary 1k Ω ct/8 Ω
- 350mW rating



	Cat.	Qty 1+	Qty 2+	Qty 4+
Standard	MM2532	\$5.90	\$5.30	\$4.70

Miniature Coupling Transformer

- 3k Ω CT//3k
- Iron core



	Cat.	Qty 1+	Qty 2+	Qty 4+
Miniature	MM2534	\$5.90	\$5.30	\$4.70
	1 1 1 V La F. I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FIVILIM	THE RESERVE OF THE RE	



SPEAKER TRANSFORMER

5W Line Speaker Transformer

Designed to tap 100V (or 70V 1/2 power) Designed to tap 1000 (10 700 172 power) public address amplifier lines to use an 8Ω speaker. Made with grain oriented steel for good frequency response. Good dynamic range. Primary taps enable you to select power level for

8Ω speaker. Connect primary to C (100V) and tap for whatever sound level is required from 0.5-5WRMS. Supplied with terminal block mounted on top of transformer. Mounting hole centres 53mm.



		_	
Primary	Power	0.5W —	
20k	0.5W	1W-	
10k	1W	2W —	
5k	2W	5W—	
2.5k	5W	C 100V	100
Cat.	Qty 1+	Qty 2+	Qty 4+
MM19	00 \$13.90	\$12.50	\$11.10
MM19	00 \$13.90	\$12.50	\$11.10

STROBE GLOBE & TRIGGER

Miniature Strobe Trigger Transformer

Used to trigger small XENON discharge lamps.

- Can be used with SL2692 Strobe Tube
- Dimensions: 10(L) x 7(Ø)mm



XENON Replacement Globe

Suits common party strobe lights with a Xenon tube. Can be used with MM2520 Trigger Transformer.

- Design power: 6WMax voltage: 550V
- Design voltage: 500VMin voltage: 200V
- Min trigger voltage: 210V
 Flash frequency: 0.4 4Hz
- Sec trigger voltage: 6kV
- Lifespan: Up to 3 million flashes
- Glass dimensions:
- 32(H) x 5(Dia.)mm

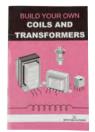
Cat.	Qty 1+	Qty 10+	Qty 25+
SL2692	\$6.90	\$6.20	\$5.50

BOOKS

Build Your Own Coils and Transformers Book

This book is a wealth of information, ideal for a hobbyist or anybody interested in winding their own transformers. After the introduction the book covers attributes of coils/transformers, mutual inductance, reactance, resonance, impedance,

coil selectivity. It then goes on to the design aspects -discussing coils in tuning circuits, types of formers and cores, types of winding, self capacity, equations, coil design, design of IF transformers then output and power transformers. 55 pages 137 x 212mm.





Cat.	Qty 1+
BM2440	\$9.90

CABLE & CONNECTORS



CONNECTORS:

2.5, 3.5, 6.5mm - Audio	A233	Modular	B270
Adaptors - RCA	A232	Molex	A257
Adaptors - DC Power	A258	Motorola Type	B196
Amphenol Connectors	A238	NBN Battery Connector	A259
Anderson Type Connectors	A256	N-Type Connectors	A253
Automotive (250 Series)	A257	Neutrik™ Plugs & Sockets	A235
Banana	A236	PAL Connectors	A242
Battery Clamps	B86	PCB Mount Terminals	A251
Belling-Lee Connectors	A242	Phono	A233
Binding Posts	A236	Quick Connectors	A254
BNC	A244	RCA	A231
Cannon - see Amphenol	A238	Ribbon Cable Connectors	A250
Car Radio	B196	RJ12, 45 Adaptors	B270
Ceramic Terminal Blocks	A251	Self-Sealing QCs	A254
Cigarette Lighter Adaptors	B90	SMA	A247
Coaxial	A242	Solder Tags, Lugs	A249
Crimp Lugs	A253	Speaker Terminals	A237
D Connectors & Backshells	A248	Speakon	A238
DC Power	A258	S-Video	A240
Deutsch	A257	Tagboard, Tagstrip	A250
DIL Jumpers	A250	Telephone	B270
DIN Connectors	A241	Telephone Wallplate	B271
Disk Drive Connectors	A249	Terminal Blocks	A252
EZ Hooks	A66/	TNC	A243
FME Connectors	A243	TOSLINK Adaptors	B169
F-Type /	A243	TV Antenna	A242
HDMI	A246	UHF	A247
Header Terminals	A250	USB	A246
High Current Connectors	A256	Valve Sockets	A204
IDC Headers	A250	Wallplates & Inserts AV/IT	A240
Jumper Shunts	A250	XLR Connectors (mini)	A239
Merit Plugs	B90	XLR	A239

WIRE & CABLE:

AC Mains Cable	AZZJ
Alarm Cable	A230
Audio & Video Cable	A228
Cable Ties	A264
Coaxial Cable	A229
Communication Cable	A230
Data Cable	A230
DC Power Cable	A224
Fasteners	A265
Heatshrink	A260
Hookup Wire	A226
Microphone Cable	A228
Screened AV Cable	A228
Solar Cable	A225
Speaker Cable	A227
Telephone Cable	A229
Trailer Cable	A226

QUALITY MATTERS

We often overlook the hardware that connects our appliances, our speakers, or feed our movie streaming from the router to the TV.

Often considered unsightly, with much effort to conceal them, there's much more than meets the eye to the humble length of cable.

Especially in today's electrically noisy environments, quality makes a difference. That's why you'll find such a huge range of cable, and associated connectors.

There are budget options for those less sensitive projects, through to the most premium cable and connectors for the discerning audiophile or performance critical application.

We've been selling quality hardware in this space for 40-years. We know what works, so you can trust our products, unreservedly.



HIGH CURRENT - GENERAL PURPOSE SINGLE CORE - BY THE METRE OR ROLL

15 Amp Tinned

Flexible DC tinned copper power cable suitable for general purpose automotive and marine applications.

RED: WH3073 BLACK: WH3075

Sold by the metre or by the roll.



,,	
Specifications	WH3073 & WH3075
Current Capacity	15A
Conductor mm2	1.84mm ²
Conductor Material	Tinned Copper
AWG	15
Stranding	26 x 0.3mmTC
Insulation	PVC
Resistance (20°C)	0.0108 Ω/m
Wire Dia.	1.53mm
Overall Dia.	3.2mm
Roll Length	100m

1+ Roll

\$159.00

\$159.00

5+ Rolls

\$139.00

\$139.00

Per Metre

\$1.90

\$1.90

56A	8	Gauge	OFC	
		urrent		

Good for all but the biggest car amplifiers etc.

RED: WH3060

WH3060

WH3062

Cat

WH3073

WH3075





Specification	ns	WH3060 &	WH3062
Current Capa	city	56A	
Conductor m	m2	7.5mm ²	
Conductor M	aterial	OFC	
AWG		8	
Stranding		7 x 95/0.12mm	1
Insulation		PVC	
Resistance (2	(0°C)	$0.00252~\Omega/m$	
Wire Dia.		4.05mm	
Overall Dia.		6.5mm	
Roll Length		100m	
Cat.	Per Metre	1+ Roll	5+ Rolls

25 Amp Tinned

Ideal for most automotive wiring. Tinned for corrosion prevention in marine applications.

RED: WH3080 BLACK: WH3082

Sold by the metre or by the roll.



Specifications	WH3080 & WH3082
Current Capacity	25A
Conductor mm2	2.9mm ²
Conductor Material	Tinned Copper
AWG	12
Stranding	41 x 0.3mm TC
Insulation	PVC
Resistance (20°C)	0.0059 Ω/m
Wire Dia.	1.99mm
Overall Dia.	3.35mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3080	\$3.80	\$319.00	\$289.00
WH3082	\$3.80	\$319.00	\$289.00

100A 4 Gauge OFC **Super High Current**

Run from your battery to distribution boxes and then the 8GA to amps etc.

RED: WH3064 BLACK: WH3066



Sold by the metre or by the roll.

Specification	15	WH3064 &	WH3066	
Current Capa	Current Capacity		100A	
Conductor m	m2	21mm ²	21mm ²	
Conductor M	aterial	OFC		
AWG		4		
Stranding	Stranding		mm m	
Insulation		PVC		
Resistance (2	Resistance (20°C)		0.00097 Ω/m	
Wire Dia.	Wire Dia.		7.70mm	
Overall Dia.		10mm		
Roll Length		50m		
Cat.	Per Metre	1+ Roll	5+ Rolls	
WH3064	\$16.90	\$699.00	\$649.00	
WH3066	\$16.90	\$699.00	\$649.00	

40 Amp Tinned

Ideal for most automotive wiring. Tinned for corrosion prevention in marine applications. roduct will differ ightly to one show

RED: WH3068 BLACK: WH3069

Sold by the metre or by the roll.





Specifications			WH3068 &	WH3069
Cu	rrent Capa	city	40A	
Со	nductor m	m2	5.22mm ²	NEW
Со	nductor M	aterial	Tinned Copper	IN
A۷	VG		10	
Stranding		7 x 66 x 0.12m	m TC	
Insulation		PVC		
Resistance (20°C)		$0.0033\Omega/\text{m}$		
Wi	re Dia.		2.58mm	
O١	erall Dia.		5.5mm	
Ro	ll Length		100m	
	Cat.	Per Metre	1+ Roll	5+ Rolls
	WH3068	\$4.90	\$419.00	\$369.00

\$419.00

150A 2 Gauge OFC **Ultra High Current**

Run from your car battery to distribution boxes and then 8GA or 4GA to amps, etc.

\$4.90

RED: WH3070 BLACK: WH3072

WH3069

Sold by the metre or by the roll.



\$369.00

Specification	ns	WH3070 &	WH3072
Current Capa	city	150A	
Conductor m	m2	31mm ²	
Conductor M	aterial	OFC	
AWG		2	
Stranding		145 x 19/0.12n	nm
Insulation		PVC	
Resistance (20°C)		0.0007 Ω/m	
Wire Dia.		8.3mm	
Overall Dia.		13mm	
Roll Length		30m	
Cat.	Per Metre	1+ Roll	5+ Rolls
WH3070	\$24.90	\$629.00	\$569.00
WH3072	\$24.90	\$629.00	\$569.00

(🔘

HIGH CURRENT - GENERAL PURPOSE - 10 METRE HANDY PACKS

\$439.00

\$439.00

7.5 Amp Tinned - 10m Handy Packs

Flexible heavy duty tinned copper cable suitable for general purpose wiring up to

\$499.00

\$499.00

250V supplied on an easy to use handy pack 10m reel. Suitable for use in marine.

\$5.90

\$5.90

RED: WH3045 BLACK: WH3046 GREEN: WH3047

Specifications	ALL MODELS		
Rated Current	7.5A		
Conductor Dia.	0.97mm		
Conductor mm2	0.75mm ²		
AWG	18/19		
Stranding	24 x 0.2mmTC		
Insulation	PVC	Standard	
Resistance (20°C)	0.0237 ohm/m	PVC	
Overall Dia.	2.4mm insulation +80°C		
Roll Length	10m	+00 C	

Cat.	Qty 1+	Qty 4+	Qty 10+
WH3045	\$6.90	\$6.20	\$5.50
WH3046	\$6.90	\$6.20	\$5.50
WH3047	\$6.90	\$6.20	\$5.50

7.5 Amp Tinned - Heavy Duty Silicone 10m Handy Packs

Silicone rubber insulation, very flexible with high temperature rating. Max temperature 180°C

• Roll Length 10m

RED: WH3035 BLACK: WH3037

Cat.	Qty 1+	Qty 4+	Qty 10+
WH3035	\$16.90	\$14.90	\$13.90
WH3037	\$16.90	\$14.90	\$13.90

p.A226 - light duty hook-up cable

OFC

What does "OFC" mean? It means OXYGEN FREE COPPER. It's a purer form of copper metal.

15 Amp Tinned - 10m Handy Packs

Flexible DC tinned copper power cable suitable for general purpose automotive and marine applications. Supplied on an easy to use 10m handy pack reel and

available in three colours. • Tinned copper cable

RED: WH3054 BLACK: WH3055 GREEN: WH3056

Specificat	ions	ALL MODELS	
Rated Curr	ent	15A	
AWG		16	
Stranding		26 x 0.3mm	
Insulation		PVC	Standard
Maximum	Temp.	80°C	PVC
Overall Dia	a.	3.3mm	insulation +80°C
Roll Length	1	10m	+60 C
Cat	Oty 1+	Oty 4+	Oty 10+

Cat.	Qty 1+	Qty 4+	Qty 10+
WH3054	\$15.90	\$13.90	\$12.90
WH3055	\$15.90	\$13.90	\$12.90
WH3056	\$15.90	\$13.90	\$12.90

SINGLE CORE CONTINUED

200A 0 Gauge OFC **Ultra High Current**

Run from your battery to distribution blocks and then 2GA, 4GA or 8GA to your amplifiers or other power equipment for seriously high current applications.



Overall Dia.

Roll Length

Sold by the metre or by the roll



Cat.	Per Metre	1+ Roll	5+ Rolls
WH3092	\$38.90	\$829.00	\$699.00
WH3094	\$38.90	\$829.00	\$699.00

25m

SOLAR SYSTEM CABLE

UV Stabilised Solar Power Cable by the metre

Very tough cable, specifically for the rigors of outdoor use in solar panel installations. Dust, age and UV resistant, tinned copper conductors to minimise corrosion. Use with our PV connectors for complete environmental protection.







WH3121	WH3122
50A	70A
4.0mm ²	6.0mm ²
Tin plate copper, C	lass 5
1000VDC	
-40°C to +125°C	
IP65	
XLPC	
2 PfG 1161/01.06	
100m	
	50A 4.0mm ² Tin plate copper, C 1000VDC -40°C to +125°C IP65 XLPC 2 PfG 1161/01.06

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3121	\$5.20	\$439.00	\$389.00
WH3122	\$7.90	\$669.00	\$589.00



40yrs of CABLE

HIGH CURRENT - GENERAL PURPOSE 2 CORE - BY THE METRE OR ROLL

7.5 Amp 2 Core Tinned **DC Power Cable**

Double insulated 2 core power cable suitable for auto & boating applications. Tinned copper cable suitable for use in marine applications. Sold by the metre or 10m handy pack or 30m roll pack. PVC Insulation.

- Resistance (20°C): 0.024 ohm/m
- Max Temp.: 80°C
- Dimensions: 5(W) x 3.2(H)mm

WH3057 • 100m Roll

WH3049

• 10m Roll

WH3053

• 30m Roll

Sold by the metre or by the roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3057	\$2.10	\$179.00	\$159.00
Cat.	Qty 1+	Qty 4+	Qty 10+
WH3049	\$19.90	\$17.90	\$15.90
WH3053	\$49.90	\$44.90	\$39.90

15 Amp Tinned

Double insulated 2 core tinned power cable suitable for automotive and marine applications (PVC + 48 x 0.2mm2) x 2. PVC Insulation.

- Resistance (20°C): 0.0123 ohm/m
- Max Temp.: 80°C
- Dimensions: 4.5 x 7.2mm

WH3079

• 100m Roll, sold by the metre or roll

WH3077

• 30m Roll, sold by the roll only



5

Sold by the metre or by the roll

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3079	\$3.80	\$319.00	\$289.00
Cat.	Qty 1+	Qty 4+	Qty 10+

25 Amp Figure-8 Tinned by the metre

Ideal for most auto, marine, or general purpose wiring. Twin core for positive and negative connections. Tinned copper conductors. PVC Insulation.

- Resistance (20°C): 0.0053 ohm/m
- Max Temp.: 80°C
- 3.5mm (outside dia)

100m roll. Sold by the metre or by the roll

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3087	\$5.90	\$499.00	\$439.00

56 Amp Figure-8 Tinned by the metre

For higher current applications where twin core cabling is required. Red & black colour for easy identification. PVC Insulation.

- Resistance: (20°C): 0.0024 ohm/m
- Max Temp.: 80°C
- Dimensions: 6.7 x 13.6mm



	50m roll.
Sold by the	metre or by the roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3063	\$12.90	\$549.00	\$499.00

90 Amp Figure-8 Tinned by the metre

For even higher current applications where twin core cabling is required. Red & black colour for easy identification. PVC Insulation

- Resistance: (20°C): 0.0013 ohm/mMax. Temp.: 80°C
- Dimensions: 8.5 x 17.0mm



Sold by the metre or by the roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3067	\$20.90	\$899.00	\$799.00

AC MAINS CABLE

Two-o with a for g requi

Sold by the metre or by the roll. Cat. WB1560

Core iviains riex
core mains flex cable (no earth)
a white outer PVC jacket. Suitable
eneral 240V appliances not
iring an earth.

Three Core Mains Flex

Standard 240V 3 core mains flex power cable. White outer PVC jacket. Suitable for extension cables and general 240V appliances where an earth is required.

Sold by the metre or by the roll



WB1560	WB1562	WB1565	WB1568
7.5A	10A	10A (Lights)	20A
Flat	Round	Flat	Flat
24 x 0.20mm	32 x 0.20mm	1 x 1.13mm	7 x 0.67mm
Q070451	Q080451		
100m			
Brown - Active / B	lue - Neutral		
	7.5A Flat 24 x 0.20mm Q070451 100m	7.5A 10A Flat Round 24 x 0.20mm 32 x 0.20mm Q070451 Q080451	7.5A 10A 10A (Lights) Flat Round Flat 24 x 0.20mm 32 x 0.20mm 1 x 1.13mm Q070451 Q080451 100m 1 x 1.20mm

Twin & Earth Wiring -Lighting

Twin & Earth Flat Cable 1 00mm² x 2+E (Lights 10A) Cat. WB1565



0.75mm² x 2

1.0mm² x 2 + Earth 2.5mm² x 2 + Earth

Sold by the metre or by the roll.

Twin & Earth Wiring -**Power**

2.5mm² x 2+E (Power 20A) Cat WR1568





OOO Sold by the metre or by the roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1560	\$1.70	\$139.00	\$109.00
WB1562	\$3.50	\$279.00	\$229.00
WB1565	\$2.00	\$159.00	\$129.00
WB1568	\$3.40	\$269.00	\$219.00

PROJECT WIRE

GENERAL PURPOSE POWER

Flexible Light Duty

13 x 0.12mm. Suited for all general purpose wiring. 8 different colours available. PVC insulation.

Rated Current	0.6A	Red	WH3010
Conductor	0.42mm	Black	WH3011
Dia.	• • • • • • • • • • • • • • • • • • • •	Brown	WH3012
Conductor	0.147mm ²	Orange	WH3013
Stranding	13 x 0.12mmTC	Yellow	WH3014
Overall Dia.	1.8mm	Green	WH3015
AWG	25	Blue	WH3016
Roll Length	100m		
Sold by the metre or		White	WH3017

,	•		
	Per Metre	1+ Roll	5+ Rolls
All Types	\$0.33	\$25.00	\$20.00

Heavy Duty

24 x 0.2mm. Suitable for 250V wiring and general heavy duty work. PVC insulation.

Rated Current	7.5A		Red		WH3040
Conductor	0.97mm		Black		WH3041
Dia.			Green		WH3042
Conductor	0.75mm ²	!			
Stranding	24 x 0.2n	nm			
Overall Dia.	2.4mm Sold by the metre				he metre
AWG	18/19		or by the roll.		
Roll Length	100m				
Per Metre 1+ Roll 5+ Rolls					Rolls

Extra Heavy Duty

All Types

\$0.75

32 x 0.2mm. Suitable for 250V wiring and general heavy duty work. PVC insulation.

\$55.00

\$45.00

Rated Current		10A		Brown	WH3050
Conducto Dia.	Conductor 1.15mm		1	Blue	WH3052
Conduct	nductor 1mm ²				
Stranding		32 x 0.2	mm		
Overall Dia.		2.8mm			
AWG		17		50	ld by the metre
Roll Length 1		100m			by the roll.
	Per	Metre	1+ Rol	I	5+ Rolls
All Types	\$1.1	0	\$79.00)	\$65.00

HOOK-UP CABLE

Light Duty Silicone Hook Up Wire 8m Handy Packs

This hook-up wire has silicone rubber insulation, which makes it extremely flexible and capable to withstand temperatures from -60°C up to 150°C. Supplied on a handy 8m roll and available with red or black insulation.

Specifications	ВОТН
Rated Current	1A
AWG	28
Stranding	7 x 0.1mm
Insulation	Silicone rubber
Maximum Temp.	150°C
Overall Dia.	1.6
Pack Length	8m

Cat.	Qty 1+	Qty 4+	Qty 10+
WH3034	\$13.90	\$12.90	\$10.90
WH3036	\$13.90	\$12.90	\$10.90

Pack of 8 Wire Colours -25m on each roll

Quality 13 x 0.12mm tinned hook-up wire on plastic spools.



Current Rating	g 0.6	Α	Max te	mp.	70°C
Insulation	PV	2	AWG		26
Stranding	13	x 0.12mmTC	Overal Dia.	l	1.8mm
Resistance (20°C)	0.1	365 ohm/m	Roll Length		25m
Cat.	Qty 1+	- Qty	4+	Qty	10+
WH3009	\$46.90	\$41	90	\$36	90

MADE IN

LIFETIME GUARANTEE

Flexible Light Duty 25 Metre

Quality 13 x 0.12mm tinned hook-up wire on plastic spools.



		Red	WH3000
Current rating	Black	WH3001	
Insulation	0.6A PVC	Brown	WH3002
Resistance		Orange	WH3003
(20°C)	0.1365 Ω/m	Yellow	WH3004
Max temp.	70°C	Green	WH3005
AWG	26	Blue	WH3006
Roll Length	25m	White	WH3007

	1+ Roll	4+ Rolls	10+ Rolls
Sold Per Roll	\$6.90	\$6.20	\$5.50

Hook Up Cable Packs 2 Metre Lengths

2 metres of 8 different colours of 10 x 0.12mm hook-up cable. Total of 16m of cable.



Cat.	Qty 1+	Qty 5+	Qty 10+
WH3025	\$6.90	\$6.20	\$5.50

TRAILER CABLE - 10M ROLL

Trailer Cable - 10 Metre Roll

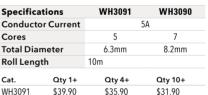
A 10 metre length of standard tinned 5 or 7 conductors sheathed in a tough black PVC jacket.



p.B95 range of trailer plugs

\$36.90

WH3090

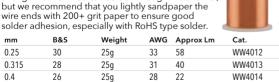


\$41.90

SPECIAL APPLICATION

Enamelled Copper Wire

This soft copper wire is coated in a high dielectric strength varnish. You can solder through the enamel, but we recommend that you lightly sandpaper the wire ends with 200+ grit paper to ensure good



mm	B&S	Weight	AWG	Approx Lm	Cat.	Qty 1+	Qty 4+	Qty 10+
0.25	30	25g	33	58	WW4012	\$9.90	\$8.90	\$7.90
0.315	28	25g	31	40	WW4013	\$9.90	\$8.90	\$7.90
0.4	26	25g	28	22	WW4014	\$9.90	\$8.90	\$7.90
0.5	24	100g	25	57	WW4016	\$18.90	\$16.90	\$14.90
0.63	22	100g	23	36	WW4018	\$18.90	\$16.90	\$14.90
0.8	20	100g	21	22	WW4020	\$18.90	\$16.90	\$14.90
1.0	18	100g	19	14	WW4022	\$18.90	\$16.90	\$14.90
1.25	16	100g	18	9	WW4024	\$18.90	\$16.90	\$14.90

Wire Wrap on Spools - 30 Metres

This Kynar wire is high quality silver plated.

- Available in three colours
- Supplied on a 30 metre reel
 Conductor 0.254mm solid
 Insulation PVDF

Roll Length	Colour	Cat.	Qty 1 +	Qty 4+	Qty 10+
30m	Red	WW4344	\$20.90	\$18.90	\$16.90
30m	Black	WW4345	\$20.90	\$18.90	\$16.90
30m	Blue	WW4346	\$20.90	\$18.90	\$16.90

Tinned Copper Wire

\$46.90

Two handy sizes of AWG 22 solid copper (0.71mm dia.) for wire links etc.

• Tin plated

WH3090



Weight	Cat.	Qty 1+
25g	WW4032	\$11.90
100g	WW4030	\$22.90

Nichrome Resistance Wire - 4 Metres

Used for wiring heating elements such as toasters, etc

- 80% nickel, 20% chromium.
- Resistance 13.77 ohm per metre.
- Size 28 B&S (0.315mm)
- 4m



LENGTH 4 ME	TRES.		3
Cat.	Qty	1+	
WWADAD	¢7	20	

SPEAKER CABLE - BY THE METRE OR ROLL:

Everyone, at some stage of their life, needs to run a length of wiring to set up a speaker or two. Yes, you may be able to cobble some mains fig.8 flex to do the job - but really, let's get serious. The Jaycar range of speaker cable goes from quite modest to gi-normous! At the modest prices shown below, why not just use the right stuff - with polarisation to boot - to get that job done, neatly & efficiently. Oh, and if you find yourself doing speaker wiring jobs a fair bit, you may be better off buying a spool. It's always there when you need it.

Light Duty Figure 8 14/0.14mm OFC

Ideal for Hi-Fi systems, intercoms, etc. Grey with black trace.

• 100m roll, PVC insulation



Sold by the metre or by the roll.

Specifica	tions	WB1702	W	
Conductor Diameter		0.51mm x 2		
Conducto	onductor mm2		2	
AWG		24 x 2		
Stranding	9	(14 x 0.14mm OFC) x 2		
Dimensio	ns	1.8mm x 3.6mm		
Cat.	Per Metre	1+ Roll	5+ Rolls	
WB1702	\$0.70	\$55.00	\$45.00	

Regular Duty Figure 8 14/0.20mm

Clear with white trace

• 100m roll, PVC insulation



Sold by the metre or by the roll.

Specifica	tions	WB1704		
Conductor Diameter		0.74mm x 2		
Conductor mm2		0.44mm ² x 2		
AWG		21 x 2		
Stranding	3	(14 x 0.2mm OFC) x 2		
Dimensio	ns	2mm x 4mm		
Cat.	Per Metre	1+ Roll	5+ Rolls	
WB1704	\$0.95	\$75.00	\$59.00	

Medium Duty Figure 8 19/0.18mm OFC

Suited to amplifiers up to 150 watts. 19 \times 0.18mm. Black with white trace.

• 100m roll, PVC insulation



Sold by the metre or by the roll.

Specifica	tions	WB1706		
Conductor Diameter		0.8mm x 2		
Conductor mm2		0.483mm ² x 2		
AWG		20 x 2		
Stranding	J	(19 x 0.18mm OFC) x 2		
Dimensio	ns	2.6mm x 5.2mm		
Cat.	Per Metre	1+ Roll	5+ Rolls	
WB1706	\$1.05	\$79.00	\$65.00	

Heavy Duty Figure 8 24/0.20mm OFC

Suited for speaker systems above 150 watts. 24/0.2mm. Clear with black trace.

• 100m roll, PVC insulation



Sold by the metre or by the roll.

Specifica	ations	WB1708	
Conductor Diameter		0.97mm x 2	//
Conducto	Conductor mm2		
AWG		18/19 x 2	151
Stranding	9	(24 x 0.2mm OFC) x 2	
Dimensio	ons	2.8mm x 5.6n	nm
Cat.	Per Metre	1+ Roll	5+ Rolls
WB1708	\$1.55	\$119.00	\$99.00
	*	*	******

Extra Heavy Duty Figure 8 41/0.20mm OFC

Clear with white trace.

• 100m roll, PVC insulation



Sold by the metre or by the roll.

			181 191	
Specification	ons	WB1710	N N	
Conductor Diameter		1.29mm x 2		
Conductor	mm2	1.288mm ² x 2		
AWG		16 x 2		
Stranding		(41 x 0.2mm OFC) x 2		
Dimensions	;	3.2mm x 6.4mm		
Cat.	Per Metre	1+ Roll	5+ Rolls	
WB1710	\$2.20	\$179.00	\$139.00	

Extra Heavy Duty Figure 8 79/0.20mm OFC

Exactly half the wire content of the Jumbo cable but still 3 times thicker than the heavy duty cable. Clear with white trace.

• 100m roll, PVC insulation



Sold by the metre or by the roll.

Specifica	itions	WB1712	
Conductor Diameter		1.8mm x 2	19 16
Conducto	or mm2	2.5mm ² x 2	
AWG		13 x 2	
Stranding)	(79 x 0.2mm OFC) x 2	
Dimensio	ns	4.0mm x 8.0mm	
Cat.	Per Metre	1+ Roll	5+ Rolls
WB1712	\$4.00	\$319.00	\$259.00

Jumbo Speaker Cable 259/0.12mm OFC

Top quality speaker cable. Figure 8, 259/0.12mm strands each side. Clear - blue trace.

• 100m roll, PVC insulation



Sold by the metre or by the roll.

			N. A. C. March 1997	
Specifica	tions	WB1732	MAN	
Conductor Diameter		1.92mm x 2		
Conducto	or mm2	2.93mm ² x 2		
AWG		12/13 x 2		
Stranding	I	(259 x 0.12mm OFC) x 2		
Dimensio	ns	4mm x 8mm		
Cat.	Per Metre	1+ Roll	5+ Rolls	
WB1732	\$5.50	\$439.00	\$359.00	

Flat Jumbo Speaker Cable 203/0.12mm OFC

Ideal for car stereo or home wiring under the carpet. Clear with white trace

• 100m roll, PVC insulation



Sold by the metre or by the roll.

Specifica	tions	WB1740	W-83
Conductor Diameter		1.7mm x 2	1817
Conducto	r mm2	2.3mm ² x 2	
AWG		13/14 x 2	
Stranding	l	(203 x 0.12mm OFC) x 2	
Dimensio	ns	12.5mm x 8.5mm	
Cat.	Per Metre	1+ Roll	5+ Rolls
WB1740	\$5.20	\$419.00	\$339.00

Pro Audio Speaker Cable 41/0.16mm OFC

Super flexible speaker cable. Separate colour-coded 18AWG red and black conductors in a single outer sheath. Conductors: 41 x 0.16 OFC. Jacket OD: 6mm

• 100m roll, PVC insulation



Sold by the metre or by the roll

Specificat	ions	WB1754		
Conductor Diameter		0.16mm x 2		
Conducto	r mm2	0.824mm ² x 2		
AWG		18 x 2		
Stranding		(41 x 0.16mm OFC) x 2		
Dimensions		6mm		
Cat.	Per Metre	1+ Roll	5+ Rolls	

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1754	\$2.90	\$229.00	\$189.00

Core Pro Audio Speaker Cable 41/0.16mm OFC

Super flexible for stage & pro applications. Four core OFC colour coded conductors. Conductors: 41 x 0.16mm OFC. Jacket OD: 7.5mm

• 100m roll, PVC insulation



Sold by the metre or by the roll.

Specifica	tions	WB1762	
Conductor Diameter		0.16mm x 4	
Conducto	or mm2	0.824mm ² x 4	
AWG		18 x 4	
Stranding	J	(41 x 0.16mm OFC) x 4	
Dimensio	ns	7.5mm	
Cat.	Per Metre	1+ Roll	5+ Rolls
WB1762	\$5.80	\$459.00	\$379.00

SPEAKER CABLE - 30M ROLLS

Light Duty Figure 8 30m Roll

14/0.14mm Figure 8. Grey with black trace. AWG: 24 x 2. WB1703



Heavy Duty Figure 8 30m Roll 24/0.20mm Figure 8.

24/0.20mm Figure 8. Clear with black trace. AWG: 18 x 2. WB1709



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Extra Heavy Duty Figure 8 30m Roll

79/0.2mm. Figure 8. Clear with white trace AWG: 13 x 2. WB1713



Cat.	Qty 1+	Qty 4+	Qty 10+		
WB1703	\$16.90	\$14.90	\$13.90		
WB1709	\$41.90	\$36.90	\$32.90		
WB1713	\$99.90	\$89.90	\$79.90		

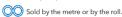




SCREENED AUDIO & VIDEO CABLE

Figure 8 Twin Screened

Twin grey PVC covered individually screened conductors. Screens electrically separated.



3010	by the metre of b	y tile roii.	
Specifica	tions	WB1502	
Conducto	r Diameter	0.32mm x 2	
Conducto	or mm2	0.08mm ² x 2	
Conducto	or Stranding	7 x 0.12mm x	2
AWG		28 x 2	1911
Max. Tem	р	70°C	
Screen St	randing	28 x 0.12mm x 2	
Dimensio	ns	3mm x 6mm	
Roll Leng	th	100m	
Cat.	Per Metre	1+ Roll	5+ Rolls
WR1502	\$1.50	\$110.00	\$80.00

Single Screened Audio

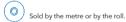
Grey PVC covered, light duty cable. Ideal for patch cords, small microphones, amplifier wiring, etc.



Specifica	tions	WB1500	
Conducto	r Diameter	0.32mm	
Conducto	r mm2	0.08mm ²	
Conducto	r Stranding	7 x 0.12mm	
AWG		28	
Max. Tem	р	70°C	
Screen St	randing	28 x 0.12mm	
Dimensio	ns	3mm	
Roll Leng	th	100m	
Cat.	Per Metre	1+ Roll	5+ Rolls
WB1500	\$0.75	\$59.00	\$49.00

2 Core Round

Twin screened pair (not balanced). Enclosed in a thick wall PVC jacket.



ons	WB1504		
Diameter	0.32mm x 2		
mm2	0.08mm ² x 2		
Stranding	7 x 0.12mm		
	28 x 2		
	70°C		
nding	40 x 0.12mm		
;	3.5mm		
	100m		
Per Metre	1+ Roll	5+ Rolls	
\$1.15	\$89.00	\$69.00	
		Diameter 0.32mm x 2 mm2 0.08mm² x 2 Stranding 7 x 0.12mm 28 x 2 70°C nding 40 x 0.12mm 3.5mm 100m Per Metre 1+ Roll	

4 Core Round

4 conductors each screened and encased in one PVC covering. Ideal for DIN plug and socket wiring. Screens electrically common to all conductors.



Sold by the metre or by the roll

3010	y tite roll.	-	
Specifica	tions	WB1510	
Conducto	r Diameter	0.32mm x 4	
Conducto	r mm2	0.08mm ² x 4	
Conducto	r Stranding	7 x 0.12mm	
AWG		28 x 4	
Max. Tem	р	70°C	
Screen St	randing	28 x 0.12mm	
Dimensio	ns	4.5mm	
Roll Leng	th	100m	
Cat.	Per Metre	1+ Roll	5+ Rolls
WB1510	\$2.00	\$159.00	\$129.00

PROFESSIONAL AUDIO & VIDEO

Triple cable, 2 for audio and the thicker one for video. It is the same cable that's used in our 3 RCA to 3 RCA pre-made cables. 2 Audio Cables.

• Roll Length 50m

"Fantastic quality for home theatre cabling."

- ADAM, RYDALMERE STORE MANAGER

Sold by the metre or by the roll.

Specification	s TWIN A	TWIN AUDIO CABLES		VIDEO CABLE	
Inner Conduct	t 20 x 0.12n	nm OFC x 2	24 x 0.12mi	m OFC	
Insulator	1.6mm FP	E 1 Red/1 White	2.5mm FPE	White	
Screen	40 x 0.12n	nm OFC	4 x 16 x 0.12	2mm OFC	
AWG	24x3				
Roll Length	Cat.	Per Metre	1+ Roll	5+ Rolls	
50m	WB1554	\$5.80	\$229.00	\$189.00	

Professional S-Video

High Quality cable for video. S-Video uses 4 pin mini DIN plugs. This is the same cable as used in our S-Video video cables. Ideal for home cinema.



Sold by the metre or by the roll.

Specific	ations	WB155	6	
Conduct	or Diameter	0.32mm	(2	
Conduct	or mm2	0.08mm ²	x 2	
Conduct	or Stranding	7 x 0.12m	ım	
AWG		22x2		
Max. Ter	mp	70°C		
Screen S	tranding	46 x 0.1mm		
Dimensi	ons	6 x 2 x 6.5mm		
Roll Leng	gth	100m		
Cat.	Per Metre	1+ Roll	5+ Rolls	
WB1556	\$4.60	\$369.00	\$299.00	

Single Core OFC Screened

High quality mono audio cable. Braid: 96/0.10 + Alum, Capacitance: 6.8pF/m, Impedance: 65Ω . PEF insulation.



Sold by the metre or by the roll.

_	-	-		
Specific	ations	WB150	8	
Conduct	or Diameter	0.32mm		
Conduct	or mm2	0.08mm ²		
Conduct	or Stranding	2mm		
AWG		22		
Max. Ter	np	60°C		
Screen S	tranding	45 x 0.12	mm	
Dimensi	ons	6mm		
Roll Leng	gth	100m		
Cat.	Per Metre	1+ Roll	5+ Rolls	
WB1508	\$3.40	\$269.00	\$219.00	

Figure 8 OFC Screened Audio

High quality audio cable. As used on our best leads



 $ot\!\!$ Sold by the metre or by the roll.

Solo	d by the metre or b	y the roll.		
Specific	ations	WB150	6	и ш
Conduct	or Diameter	0.64mm	(2	
Conduct	or mm2	0.32mm ²	x 2	
Conduct	or Stranding	7 x 0.12m	ımx 2	
AWG		28x2		
Max. Ter	np	70°C		-
Screen S	tranding	96 x 0.12	mm plus Al	Foil x 2
Dimensi	ons	14 x 6mm	1	
Roll Leng	gth	40m		
Cat.	Per Metre	1+ Roll	5+ Rolls	5
WB1506	\$5.80	\$189.00	\$149.00	

PROFESSIONAL MICROPHONE CABLE

The best quality microphone cable for all P.A. and stage use. Flexible black matte finish PVC low noise cable with tinned copper screening.

2 Core Screened

High quality mic cable for PA, stage. Conductors $60 \times 0.08 \, \mathrm{mm} \times 2 \, \mathrm{core}$. PE insulation on conductors improved shielding. Cotton filled & tissue wrapped. Braided Shield: $144 \times 0.1 \, \mathrm{mm}$ tinned copper (144/0.10). Outer Jacket $6.0 \, \mathrm{mm}$ diameter.



• AWG - 22-18



Sold by the metre or by the roll.

Per Metre 1+ Roll 5+ Rolls

WB1530 \$3.40 \$269.00 \$219.00

4 Core Screened

Conductors: 26 x 0.1mm x 4. PE insulation on conductors. Cotton filled & tissue wrapped.

Braided shield: 112 x 0.12mm.

Outer Jacket: 6mm diameter.

• Roll Length 100m

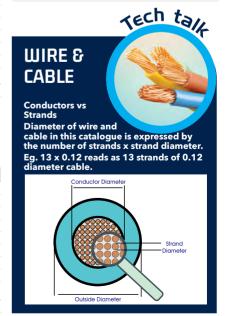
• AWG - 22



Sold by the metre or by the roll.

 Cat.
 Per Metre
 1+ Roll
 5+ Rolls

 WB1540
 \$4.00
 \$319.00
 \$259.00



75 OHM COAXIAL TELEVISION CABLE & ROLLS



Belden Brand 75 Ohm Domestic TV Coax

This is RG59 with an OD of 6mm. Belden No. 9275.

- Inductance: .097uH/300mm • Capacitance: 16.2pF/300mm
- Attenuation: 100MHz 2.6db/30m 300MHz - 4.45db/30m, 600MHz - 6.20db/30m

75 Ohm RG59 Gas **Injected Foam Coax**

New generation TV Coax. Both a braid & foil, provides 100% screening.

- · Won't get water logged underground
- Black in colour
- Outside diameter 6mm Cat WR2004

Sold by the metre or by the roll.

Roll Length	Cat.	Per Metre	1+ Roll	5+ Rolls
152m	WB2002	\$1.40	\$169.00	\$125.00
100m	WB2004	\$1.00	\$79.00	\$59.00

75 Ohm RG59 Gas injected Foam Coax 30m Roll

A 30m roll is generally a common length for a domestic TV antenna installation. Save over buying by the metre, and a small roll is easy to work with.

Black Cat. WB2005 White Cat WB2001



Sold by the roll

Roll Length	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
30m	Black	WB2005	\$26.90	\$23.90	\$21.90
30m	White	WB2001	\$26.90	\$23.90	\$21.90

Belden Brand Quad Shield RG6 75 Ohm Coax

Used by Pay-TV installers. Quality Belden brand. We have repackaged in Australia on 100m reels. Normally it is only available in 1000 feet boxes. It features a solid 18AWG steel centre conductor, copper plated, gas injected polyethylene foam insulation (to keep water out), Black PVC jacket, plus 4 layers of screening: a combination of aluminium foils and braiding.

• 100% sweep tested 5MHz-1GHz





Sold by the metre, or by the 30m or 100m roll.

Specifications	вотн
Centre Conductor	18AWG steel Cu plated 1.016 dia
Core O.D	4.572mm
Jacket O.D	7.569mm
Nom. Impedance	75Ω
Nom. Capacity	16.2pf/ft
Vel. of prop	82%, 53.1pf/m
AUSTAR Approval	F 30456
Foxtel Approval	F 30456
Belden Part	1189A Approved

WB2014

Roll Length	Cat.	Per Metre	1+ Roll	5+ Rolls	
100m	WB2009	\$2.20	\$179.00	\$129.00	
Roll Length	Cat.	Qtv 1+	Qtv 4+	Qtv 10+	
			-,	., .	

COMMUNICATION COAX CABLE



50 Ohm RG58 C/U Networking

RF communication cable suitable for signals up to 500MHz. Ideal for CB, marine, amateur, and two-way radio.

- Stranded centre core
- Wire braid shielding Cat. WB2012

50 Ohm RG58/U

RF communication cable suitable for signals up to 500MHz. Ideal for CB marine, amateur, two-way radio and computer networking

- Solid centre core
- Wire braid shielding Cat WR2010

50 Ohm RG213/U

Communication cable commonly used in UHF

• 100m Roll Length - sold by the metre or roll Cat. WB2015

Sold by the metre or by the roll.

Conductors	AWG	OD	Cat.	Per Metre	1+ Roll	5+ Rolls
19/0.18 + 112/0.12mm	23	5mm	WB2012	\$2.90	\$249.00	\$189.00
19/0.18 + 112/0.12mm	23	5mm	WB2010	\$1.90	\$159.00	\$119.00
7/0.75 + 216/0.12mm	23	10.2mm	WB2015	\$6.90	\$589.00	\$449.00

QUALITY COAX CABLE

We do not sell cheap 3C-2V type TV coax. It's screening is inadequate for acceptable performance in today's digital TV environment.

TELEPHONE CABLE



2 Pair (4 Wire)

Flat cable. Ivory colour, 4 x 7 x 0.12mm • 100m Roll Length -

sold by the metre or roll

3 Pair (6 Wire)

Flat cable. Ivory colour, 6 x 7 x 0.12mm

• 100m Roll Length sold by the metre or roll Cat. WB1622

Sold by the metre or by the roll.

Conductors	AWG	OD	Cat.	Per Metre	1+ Roll	5+ Rolls
7/0.16mm	28	5mm	WB1620	\$0.95	\$79.00	\$59.00
7/1.16mm	28	7mm	WB1622	\$1.15	\$95.00	\$69.00

CATSE / CAT6 CABLE



Cat5e Solid network

Single strand Cat5e, used for long runs in permanent installations.

• A-Tick approved, Blue in colour, 100MHz

POLYWRAPPED 30M PACK - NO ROLL Cat WR2023

100M ROLL Cat WB2022



WR2023

Sold by the metre, 30m pack or by the roll.

Roll Length	AWG	Cat.	Qty 1+	Qty 4+	Qty 10+
30m Pack	24	WB2023	\$39.90	\$35.90	\$31.90
Roll Length	AWG	Cat.	Per Metre	1+ Roll	5+ Rolls

A192 ← jaycar.co.nz

CATSE / CAT6 CABLE



WR2030

Cat5e 8 Core Stranded Network

An ACMA approved high quality cable for patch leads and short runs. Consists of 4 twisted pairs, each conductor 7/0.20mm copper wire, polypropylene insulated with a tough ivory colour PVC jacket. 100MHz. Cat WR2020

Cató Solid Core UTP Network

Designed for reliable highspeed networks. Suitable for IDC terminations on patch panels and wall plates. 4 x 23 AWG solid core twisted pairs. PVC spline. Cat. WB2030

Roll Length	AWG	Cat.	Per Metre	1+ Roll	5+ Rolls
100m	24	WB2020	\$1.75	\$129.00	\$109.00
100m	23	WB2030	\$1.70	\$129.00	\$109.00

COMPUTER / DATA CABLE



Sold by the metre or by the roll

50 Ohm RG174U Coax Cable

Handy 20m length of unterminated RG174/U cable as commonly used in Wi-Fi and amateur radio installations. Tinned copper braid.

- Impedance: 50 ohm
- Insulation: Polyethylene (PE)
- AWG: 28

Sold by the 20m roll.

Roll Length		Cat.	Qty 1+	Qty 4+	Qty 10+
20m	RG174/U	WB2018	\$34.90	\$30.90	\$27.90



Computer

All are screened to stop RFI.

- 6 way: 7/0.12 x 6C + foil + 7/0.16 OD 5mm 9 way: 7/0.12 x 9C + foil + 7/0.16 OD 5mm
- AWG: 28

Cat. WB1575 & Cat. WB1578

Sold by the metre or by the roll.





Sold by the metre or by the roll

up in quality.

Roll Length		Cat.	Per Metre	1+ Roll	5+ Rolls
100m	6 Way	WB1575	\$2.90	\$249.00	\$189.00
100m	9 Way	WB1578	\$3.30	\$279.00	\$209.00

WHY OUR WIRE IS TINNED

We now supply all multi-strand power cable with the copper conductors tinned. When you put a coating of pure tin over the copper, you prevent the copper from oxidising. This oxidising can prevent you from achieving a good, tinned solder connection to the wire. This is particularly important in marine and car installations. We have not increased our price to you for this steep. installations. We have not increased our price to you for this step

Are you in the trade?

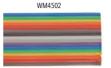
For professionals engaged in electronics & construction-related industries.



rech talk

RIBBON CABLE





WM4516 Sold by the metre or by the roll.

IDC Ribbon

Designed for Insulation Displacement Connectors. Grey in colour with red trace.

Cat. WM4502, Cat. WM4504, Cat. WM4508

Rainbow Cable 16 Core

Colour coded strands of insulated conductor bonded together in a flat cable. Ideal for rewiring looms, can be split and each individual wire used.

1.27mm (0.05")	1 27 (0 05")
1.27 11111 (0.00)	1.27mm (0.05")
7 x 0.127mm	7 x 0.127mm
28	28

Roll Length		Cat.	Per Metre	1+ Roll	5+ Rolls
30m	16 Way	WM4502	\$3.20	\$78.90	\$69.00
30m	26 Way	WM4504	\$4.40	\$119.00	\$99.00
30m	50 Way	WM4508	\$8.90	\$229.00	\$199.00
30m	16 Way	WM4516	\$6.90	\$179.00	\$159.00

p.A250 - IDC connectors

INTERCOM / ALARM / CCTV CABLE



Sold by the metre or by the roll

		100
	(000)	
WB1700	(000)	
(050)	WB1598	0
WB1590		WB2017
	ACMA Approved	

Bell Wire

Ideal for doorbells, intercoms, or anywhere where a really thin figure 8 cable is required. 7 x 0.10mm x 2 in tough outer sheath. Cat. WB1700

Alarm - 4 Core

Flexible stranded conductors, 7 x 0.16mm x 4 in tough outer sheath, Cat. WB1590

Alarm - 6 Core

Austel approved alarm cable. Use with alarms that have diallers. 7 x 0.2mm x 6 flexible stranded conductors in tough outer sheath. OD: 5.1mm. Colour white. Cat. WB1598 ACMA Approved

RG59 / Power Cable

Combines RG59 coaxial cable and 20AWG power cable. Ideal for CCTV and surveillance applications. OD: 7.5mm.

Roll Length	AWG	Cat.	Per Metre	1+ Roll	5+ Rolls
100m	30	WB1700	\$0.35	\$28.00	\$23.00
100m	25	WB1590	\$1.10	\$85.00	\$69.00
100m	24	WB1598	\$2.20	\$179.00	\$139.00
100m	20	WB2017	\$2.20	\$189.00	\$139.00

Alarm Cable

7 x 0.16mm, 4 core. Cat. WB1591

Alarm Cable - A-Tick Approved

Austel approved. For use in alarms with diallers. 6 x 7/0.2 flexible stranded conductors in tough outer sheath. Cat. WB1596 ACMA Approved





Sold by the 30m roll.

Roll Length	AWG	Cat.	Qty 1+	Qty 4+	Qty 10+
30m	25	WB1591	\$29.90	\$26.90	\$23.90
30m	24	WB1596	\$58.90	\$52.90	\$46.90

WB1596

RCA PLUGS & SOCKETS:

RCA derives from the name Radio Corporation of America. It is sometimes called a Phono connector or Cinch connector. The connector is commonly used for audio and video signals (composite or component).

Plugs - Plastic

Economy style.



Jack	et Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
	Blue	PP0238	\$1.00	\$0.90	\$0.80
	Green	PP0239	\$1.00	\$0.90	\$0.80
	Red	PP0240	\$1.00	\$0.90	\$0.80
	Black	PP0242	\$1.00	\$0.90	\$0.80
	Yellow	PP0243	\$1.00	\$0.90	\$0.80
	White	PP0244	\$1.00	\$0.90	\$0.80

Qty 1+

\$2.60

Qty 1+

\$3.90

\$3.90

Sockets - Plastic

Economy style.



Jack	et Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
	Red	PS0250	\$1.10	\$0.95	\$0.85
	Black	PS0252	\$1.10	\$0.95	\$0.85

RCA Chassis Sockets 950 **Nickel Plated** Non Insulated. Nickel plated. 8.75

PS02	57				
Col	our	Cat.	Qty 1+	Qty 10+	Qty 50+
	Black	PS0256	\$1.50	\$0.99	\$0.90
	Red	PS0257	\$1.50	\$0.99	\$0.90
	Yellow	PS0255	\$1.50	\$0.99	\$0.90

Nickel Plated Metal RCA Plugs with Cable Relief Spring

Qty 10+

Qty 10+

\$3.40

\$3.40

\$2.30

Qty 50+

PP0236

Qty 50+

\$3.00

\$3.00

\$2.05

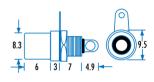
Metal Body RCA Sockets With cable protection spring.



Cat.	Qty 1+	Qty 10+	Qty 50+
PS0254	\$2.60	\$2.30	\$2.05

RCA Chassis Sockets - Gold

Non Insulated.





	Cat.	Qty 1+	Qty 10+	Qty 50
	PS0254	\$2.60	\$2.30	\$2.05
		LDCA		

Gold Plated Metal RCA Socket with Cable Relief Spring

With cable protection spring.

PS0274

RCA Plug & Socket with Screw Terminals

RCA connector to screw

Black

terminal block. No specialist tools required.



\$2.60

\$2.30

			Č.			G
					PS0272	RCA
Jack	et Colour	Cat.	Qty 1+	Qty 10+	Qty 50+	Requi panel
	Red	PS0272	\$2.90	\$2.60	\$2.30	• INS

\$2.90

Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	PS0258	\$2.50	\$2.25	\$2.00
Red	PS0259	\$2.50	\$2.25	\$2.00
Yellow	PS0260	\$2.50	\$2.25	\$2.00
White	PS0261	\$2.50	\$2.25	\$2.00
Blue	PS0270	\$2.50	\$2.25	\$2.00
Green	PS0271	\$2.50	\$2.25	\$2.00

Chassis Sockets - Gold

ires 9.5mm dia

PSO

inei noie. Insulated From Chassis	7.80		-8.3Ø
276	15	13	3.2∅

 \bigcirc

Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS0276	\$4.90	\$4.10	\$3.70
Black	PS0277	\$4.90	\$4.10	\$3.70
Yellow	PS0275	\$4.90	\$4.10	\$3.70
White	PS0278	\$4.90	\$4.10	\$3.70

Premium Gold Plated Metal Body RCA Plugs

PP0236

PP0237

Cat.

• Up to 7mm cable

Jacket Colour Cat.

Red

Black

PP0245

Gold Plated Metal RCA Plugs with Cable Relief Spring



Jack	et Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
	Red	PP0230	\$4.90	\$4.10	\$3.70
	Black	PP0232	\$4.90	\$4.10	\$3.70
	Yellow	PP0231	\$4.90	\$4.10	\$3.70
	White	PP0233	\$4.90	\$4.10	\$3.70
	Blue	PP0234	\$4.90	\$4.10	\$3.70
	Green	PP0235	\$4 90	\$4 10	\$3.70





Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug	PA3717	\$6.90	\$6.20	\$5.50
Socket	PA3718	\$6.90	\$6.20	\$5.50

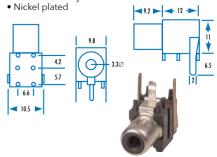
RCA LEADS

In addition to the products above, we also have a large range of interconnection leads with RCA plugs or sockets on one end and RCAs - or many other types on the other.



· Black insert only





Cat	t. '	Qty 1+	Qty 10+	Qty 50+
PSC	279	\$2.00	\$1.80	\$1.60

A194

RCA CONNECTORS

RCA ADAPTORS

RCA Socket Adaptors





Туре	Cat.	Qty 1+	Qty 4 +	Qty 10+
RCA Female to RCA Female	PA3598	\$3.90	\$3.10	\$2.70
RCA Plug to 2 x RCA Socket	PA3560	\$4.90	\$4.10	\$3.70
1 x RCA Socket to 2 x RCA Socket	PA3562	\$4.90	\$4.10	\$3.70
RCA Socket to RCA Socket	PA3599	\$7.90	\$7.20	\$6.50
3 x RCA to 3 x RCA Socket	PA3564	\$9.90	\$8.50	\$7.50
RCA Socket to BNC Socket	PA3678	\$4.90	\$4.10	\$3.70
Double Adaptor - Gold Plated	PA3570	\$7.90	\$7.20	\$6.50

Panel Mount - RCA Socket to Socket

Gold plated, insulated panel mounted RCA socket to RCA socket adaptors. Allows you to plug straight into the back of the socket.

* INSULATED FROM MOUNTING PANEL



Туре	Cat.	Qty 1+	Qty 4+	Qty 10+	
Yellow*	PS0441	\$5.80	\$5.20	\$4.60	
Red*	PS0442	\$5.80	\$5.20	\$4.60	
Black*	PS0443	\$5.80	\$5.20	\$4.60	
White*	PS0446	\$5.80	\$5.20	\$4.60	

Product Data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!



RCA Plug to Adaptors













Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA Plug to 3.5mm Mono Socket	PA3508	\$2.60	\$2.30	\$2.05
RCA Male to RCA Male Socket	PA3597	\$3.90	\$3.10	\$2.70
RCA Plug to 6.5mm Mono Socket	PA3510	\$2.60	\$2.30	\$2.05
RCA Plug to PALTV Socket	PA3676	\$4.90	\$4.10	\$3.70
RCA Male to T-81 Socket	PA3677	\$4.60	\$4.10	\$3.65
RCA Plug to BNC Female Socket	PA3655	\$4.90	\$4.10	\$3.70
RCA Right Angle Adaptor	PA3566	\$6.90	\$6.20	\$5.50

GOLD PLATED CONNECTORS

For use with wallplates.











Туре	Cat.	Qty 1+	Qty 2+	Qty 5+
Binding Post with Banana - Red	PS0490	\$4.90	\$4.40	\$3.90
Binding Post with Banana - Black	PS0491	\$4.90	\$4.40	\$3.90
Banana Socket Binding Post - Red	PS0492	\$3.90	\$3.10	\$2.70
Banana Socket Binding Post - Black	PS0493	\$3.90	\$3.10	\$2.70
RCA Socket to F-61 Socket	PS0494	\$2.90	\$2.60	\$2.30
RCA Socket - Solder - Blue	PS0489	\$2.90	\$2.60	\$2.30
RCA Socket - Solder - Red*	PS0495	\$2.90	\$2.60	\$2.30
RCA Socket - Solder - Black*	PS0496	\$2.90	\$2.60	\$2.30
RCA Socket - Solder - Yellow	PS0497	\$2.90	\$2.60	\$2.30
RCA Socket - Solder - Green	PS0499	\$2.90	\$2.60	\$2.30

RCA PHENOLIC SOCKETS

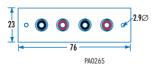
RCA Phenolic Sockets

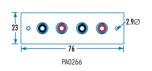
RCA sockets securely riveted to an insulated phenolic panel. Each socket is electrically isolated from the other.

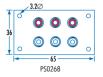












Type	Cat.	Qty 1+	Qty 10+	Qty 50+
1 Way	PS0262	\$1.80	\$1.60	\$1.40
2 Way	PS0263	\$2.60	\$2.30	\$2.05
4 Way	PA0265	\$4.10	\$3.65	\$3.25
4 Way Gold Plated	PA0266	\$5.80	\$5.20	\$4.60
6 Way	PS0268	\$5.20	\$4.65	\$4.15

2.5MM JACK PLUGS, SOCKETS & ADAPTORS

Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters: 2.5mm the smallest size used where space is a premium. Was once used as a mono earphone plug but now has multichannel functions.

2.5mm Subminiature Plugs

• Nickel plated





	PP0100	PP0103	F	PP0104	PP0101	
Туре			Cat.	Qty 1+	Qty 10+	Qty 50+
Mono			PP0100	\$1.10	\$0.95	\$0.85
Stereo			PP0103	\$1.70	\$1.50	\$1.35
Stereo Rig	ght Angled		PP0104	\$4.90	\$4.10	\$3.70
4 Contact			PP0101	\$4.60	\$4.10	\$3.65

2.5mm Stereo Line Plug - IP67

Nickel plated



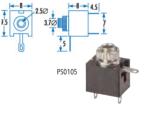
2.5mm Line Socket

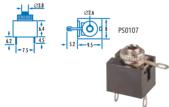
Nickel plated



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo	PS0109	\$2.60	\$2.30	\$2.05

2.5mm Chassis Sockets





Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS0105	\$1.45	\$1.30	\$1.15
Stereo	PS0107	\$2.10	\$1.85	\$1.65

2.5mm Surface Mount Sockets

• Packet of 10

SMD



Туре	Cat.	Qty 1+	Qty 10+	Qty 25+
SMD Stereo Switched	PS0110	\$24.90	\$21.90	\$14.90

2.5mm Adaptors

Nickel plated



PA3504	
PA3304	



PA3504		PA3532		
Cat.	Qty 1+	Qty 10+	Qty 50+	
PA3502	\$4.90	\$4.40	\$3.90	
PA3504	\$2.60	\$2.30	\$2.05	
PA3532	\$4.90	\$4.40	\$3.90	
	Cat. PA3502 PA3504	Cat. Qty 1+ PA3502 \$4.90 PA3504 \$2.60	Cat. Qty 1+ Qty 10+ PA3502 \$4.90 \$4.40 PA3504 \$2.60 \$2.30	Cat. Qty 1+ Qty 10+ Qty 50+ PA3502 \$4.90 \$4.40 \$3.90 PA3504 \$2.60 \$2.30 \$2.05

3.5MM JACK PLUGS, SOCKETS & ADAPTORS

Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters: 3.5mm - the mini plug, which in the stereo version is widely found on headphones used with portable audio such as MP3 players etc. It is also a standard connector used on PC sound cards. The mono version is occasionally used as a DC power

3.5mm Miniature Plugs

- Nickel plated (PP0114/130/136)
- Gold plated (PP0138)



PP0114	PP0130		PP0136	PP0138	
Туре		Cat.	Qty 1+	Qty 10+	Qty 50+
Mono		PP0114	\$1.10	\$0.95	\$0.85
Stereo		PP0130	\$1.70	\$1.50	\$1.35
Stereo Right Angled		PP0136	\$2.50	\$2.25	\$2.00
4 Contact Gold Plated		PP0138	\$5.90	\$5.20	\$4.70

3.5mm Metal Plugs with Cable Protection Spring



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP0116	\$2.00	\$1.80	\$1.60
Stereo	PP0135	\$2.60	\$2.30	\$2.05
Stereo Gold Plated	PP0131	\$3.40	\$3.05	\$2.70

3.5mm Slimline - Gold Plugs

• Gold plated over brass





Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo	PP0132	\$4.80	\$4.30	\$3.80
4 Pole	PP0134	\$6.90	\$6.20	\$5.50

3.5mm Line Sockets

Nickel plated







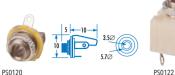
	PS0126	PS0134		PS0139	
Туре		Cat.	Qty 1+	Qty 10+	Qty 50+
Mono		PS0126	\$2.00	\$1.80	\$1.60
Stereo		PS0134	\$2.60	\$2.30	\$2.05
4 Contact		PS0139	\$6.90	\$6.20	\$5.50

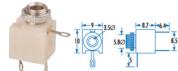


3.5MM & 6.5MM CONNECTORS

3.5MM JACK PLUGS, SOCKETS & ADAPTORS CONTINUED

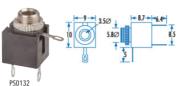
3.5mm Chassis Sockets





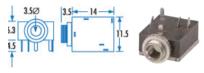






Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Open	PS0120	\$2.00	\$1.80	\$1.60
Mono Enclosed	PS0122	\$1.45	\$1.30	\$1.15
Mono Insulated	PS0123	\$2.90	\$2.60	\$2.30
Stereo	PS0132	\$1.90	\$1.70	\$1.50

3.5mm PCB Socket



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
PCB Stereo Switched	PS0133	\$2.20	\$1.95	\$1.75

3.5mm Adaptors - Stereo

• Nickel plated









PA3582	PA3580			PA3581
Stereo 3.5mm	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to 6.5mm Stereo Socket	PA3586	\$3.90	\$3.10	\$2.70
Plug to 3.5mm Stereo R/A Socket	PA3503	\$4.90	\$4.40	\$3.90
Plug to 2.5mm Stereo Socket	PA3536	\$4.90	\$4.10	\$3.70
Plug to 2 x 3.5mm Stereo Sockets	PA3582	\$4.90	\$4.10	\$3.70
Plug to 2 x RCA Sockets	PA3580	\$4.90	\$4.10	\$3.70
Socket to 2 x 3.5mm Mono Plug	PA3581	\$6.90	\$6.20	\$5.50

3.5mm Stereo Socket to 3.5mm Stereo Socket

• Nickel plated



Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo to Stereo Socket	PA3583	\$2.60	\$2.30	\$2.05

3.5mm Stereo Socket to 2 x RCA Sockets Adaptor



Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo to ZxRCA Sockets	PA3585	\$3.40	\$3.05	\$2.70

3.5mm Adaptors - Mono



PA3500	PA3506	PA3584	PA3594	PA	3657
Туре		Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to RCA S	ocket	PA3500	\$2.60	\$2.30	\$2.05
Plug to 6.5mi	n Mono Socket	PA3506	\$2.60	\$2.30	\$2.05
Plug to 3.5mi	n Stereo Socket	PA3584	\$2.60	\$2.30	\$2.05
Plug to 6.5mi	n Stereo Socket	PA3594	\$2.60	\$2.30	\$2.05
Plug to PAL (7	5 ohm) Socket	PA3657	\$4.90	\$4.10	\$3.70

6.5MM JACK PLUGS, SOCKETS & ADAPTORS

Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters: 6.5mm - the largest size; the mono version is used on guitar & microphone leads, while the stereo version is often used on Hi-Fi headphones. The 6.5mm (or 1/4" phone plug) was originally used for manual telephone switchboards particularly the 'Sylvester' type.

6.5mm 1/4" Plugs Plugs - Line - Mono

Nickel plated



	PP0150	PP0154		PP0156		
Туре		Cat.	Qty 1+	Qty 10+	Qty 50+	
Mono - Plastic		PP0150	\$1.80	\$1.60	\$1.40	
Mono - Metal		PP0154	\$2.50	\$2.25	\$2.00	
Mono - Gold		PP0156	\$4.80	\$4.30	\$3.80	
Mono - Red		PP0151	\$5.90	\$5.20	\$4.70	
Mono - Black		PP0152	\$5.90	\$5.20	\$4.70	

6.5mm 1/4" Plugs **Plugs - Line - Stereo**

Nickel plated



	PP0170	PP0174		PP0175	
Туре		Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo - Plastic		PP0170	\$2.70	\$2.40	\$2.15
Stereo - Metal		PP0174	\$3.40	\$3.05	\$2.70
Stereo - Gold		PP0175	\$6.50	\$5.85	\$5.20
Stereo - Red		PP0177	\$5.90	\$5.20	\$4.70
Stereo - Black		PP0178	\$5.90	\$5.20	\$4.70

6.5mm Pro Metal Plugs

Made especially for the rigours of the road or anywhere where a heavy duty, tough 6.5mm plug is called upon. The mono plugs feature blue identification rings, whereas the stereo plugs have black rings. This is particularly handy if you have a combination of stereo and mono plugs on the one mixing desk or patch bay.

• Nickel plated over brass



	PP0157		PP0179	
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Metal - Pro	PP0157	\$6.90	\$6.20	\$5.50
Stereo Metal - Pro	PP0179	\$7.90	\$7.10	\$6.30

6.5MM JACK SOCKETS & ADAPTORS



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS0166	\$2.20	\$1.95	\$1.75
Stereo	PS0194	\$2.60	\$2.30	\$2.05

6.5mm 1/4" Flush Panel Socket

Ever tried to mount a 6.5mm socket in a wooden box? It was impossible! Now it's easy with our unique plastic mounting aid.



Туре	Cat.	Qty 1+	Qty 5+	Qty 10+
Socket Mounting Cup	HS8025	\$3.10	\$2.80	\$2.50

6.5mm Adaptors













Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Mono Socket to 6.5mm Mono Plug	PA3588	\$2.60	\$2.30	\$2.05
Mono Plug to RCA Socket	PA3592	\$2.60	\$2.30	\$2.05
Mono Plug to 2 x 6.5mm Mono Socket	PA3534	\$4.90	\$4.10	\$3.70
Stereo Plug to 3.5mm Stereo Socket	PA3590	\$2.60	\$2.30	\$2.05
Stereo Plug to 2 x 6.5mm Stereo Socket	PA3530	\$4.90	\$4.10	\$3.70
Stereo Socket to 6.5mm Stereo Socket	PA3591	\$4.90	\$4.40	\$3.90

6.5mm Right Angle Plugs

Super tough metal construction plug for harsh environments & musos who want the best.

- Use with 6mm O.D. cable
- Strain relief provided
- Nickel plated







PP0158	PP0176		PP0159		
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+	
Right Angle	PP0158	\$2.50	\$2.00	\$1.80	
Stereo Right Angle	PP0176	\$3.00	\$2.60	\$2.30	
Pro Right Angle	PP0159	\$5.90	\$5.20	\$4.70	

Buying Online? Use Paypal!



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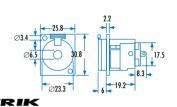
6.5mm 1/4" Chassis Sockets



Professional Locking Chassis Jack

Metal shell, mates with all mono and stereo 6.5mm (1/4") phono plugs. Plug locking feature keeps plug in the socket.





Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Open Unswitched	PS0162	\$2.50	\$2.00	\$1.80
Mono & Stereo	PS0196	\$24.90	\$22.40	\$19.90
Stereo Switched DPDT	PS0182	\$4.40	\$3.95	\$3.50
Stereo Insulated Switched Insulated	PS0184	\$4.50	\$3.60	\$3.30

6.5mm PCB / Chassis Sockets **Mono Insulated**

ABS Body

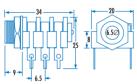




Closed when plug is NOT inserted

Insulated DPST Switched -Stereo

Works OK in mono. ABS Body





Insulated Unswitched - Stereo

Works OK in mono.

ABS Body

High Quality - Stereo

- Switching DPST
- Black plastic front insert

- Glossy chrome-finish nut
 Stereo, but can be used for mono
 Minimum Life: 10,000 insert/ withdraw cycles
- Contact Rating: 2.5A at 48VD • ABS Body



y 10+	Qty 50+
.60	\$2.30
65	\$3.25

Туре	Cat.	Qty 1+	Qty 10+	Qty 50+	
Mono Insulated Switched	PS0160	\$2.90	\$2.60	\$2.30	
Stereo Insulated DPST Switched	PS0190	\$4.10	\$3.65	\$3.25	
Stereo Insulated Unswitched	PS0192	\$3.40	\$3.05	\$2.70	
Stereo	PS0195	\$5.80	\$5.20	\$4.60	



click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

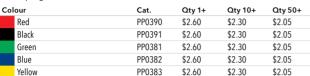
BANANA CONNECTORS

BANANA PLUGS

Banana plugs & sockets originally started life on test equipment. Their versatility quickly saw them as output connectors for power supplies. When they were integrated with binding posts they quickly saw use as speaker connectors. Now they are everywhere.

Banana Plugs Plugs - Piggy Back

With this quality piggy back style, another banana plug can be inserted into the back of the plug.



Piggy Back Insulating Shroud Type

Works with our PS0420-24 series.



PP0390

Colour		our	Cat.	Qty 1+	Qty 10+	Qty 50+
		Red	PP0385	\$3.40	\$3.05	\$2.70
		Black	PP0386	\$3.40	\$3.05	\$2.70
		Green	PP0387	\$3.40	\$3.05	\$2.70
		Blue	PP0388	\$3.40	\$3.05	\$2.70
		Yellow	PP0389	\$3.40	\$3.05	\$2.70

Plugs





Co	lour	Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
	Red	4mm	PP0400	\$1.35	\$1.20	\$1.05
	Black	4mm	PP0402	\$1.35	\$1.20	\$1.05
	Red	Right Angle	PP0394	\$2.90	\$2.60	\$2.30
	Black	Right Angle	PP0395	\$2.90	\$2.60	\$2.30

Plugs - Metal Gold Plated

Designed for monster type speaker cable.

• Side entry hole, with finger screw locking action

PP0400

• Hole will accept another banana plug or thick cable

Plugs - Metal Gold Plated & Locking

These lock into the socket, and cannot be easily removed

• Gold plated



C	olour	Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
	Red		PP0426	\$5.90	\$5.20	\$4.70
	Black		PP0427	\$5.90	\$5.20	\$4.70
	Red	Locking	PP0416	\$9.90	\$8.50	\$7.50
	Black	Locking	PP0417	\$9.90	\$8.50	\$7.50

Speaker Box Mount

These have a hole entry on the side which will accept monster type speaker cable or a banana plug. Thread is 19mm long.



Co	olour	Cat.	Qty 1+	Qty 10+	Qty 50+
	Red	PP0434	\$5.90	\$5.20	\$4.70
	Black	PP0435	\$5.90	\$5.20	\$4.70

Find Out More In Store

Our staff offer friendly and helpful service. We're here to help.

BANANA SOCKETS

4mm Banana Socket to Alligator Clip



	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PA3668	\$4.60	\$4.10	\$3.65
Black	PA3669	\$4.60	\$4.10	\$3.65

Banana / Screw Type

2 Way Gold Terminals. Top quality speaker terminal with gold banana sockets which also have a huge hole (6mm) to accept Monster type

speaker cable.

- Supplied with gasket
- Dimensions: 54(W) x 24(H)mm





Туре	Cat.	Qty 1+	Qty 5+	Qty 10+
Screw	PT3008	\$12.90	\$11.90	\$9.90

Banana Socket / Binding Post Wallplates

- Standard power point sizeGold plated







	PI0470	PI04/2		P104/4	
Туре		Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way		PT0470	\$14.90	\$13.90	\$11.90
4 Way		PT0472	\$22.90	\$20.90	\$17.90
8 Way		PT0474	\$32.90	\$28.90	\$25.90

Banana Chassis Sockets







Colour		Cat.	Qty 1+	Qty 10+	Qty 50+
	Red	PS0406	\$1.00	\$0.90	\$0.80
	Black	PS0408	\$1.00	\$0.90	\$0.80

Fully Insulated

Works with our PP0385-89 series.



Fully Insulated		Cat.	Qty 1+	Qty 10+	Qty 50+
	Red	PS0420	\$3.20	\$2.85	\$2.55
	Black	PS0421	\$3.20	\$2.85	\$2.55
	Green	PS0422	\$3.20	\$2.85	\$2.55
	Blue	PS0423	\$3.20	\$2.85	\$2.55
	Yellow	PS0424	\$3.20	\$2.85	\$2.55

Heavy Duty Enclosed

Includes a plastic cover to reduce the risk of shorting. Grub screws for internal wire connection. Hole size is 12mm. Cable hole 5mm dia. Available in red or black.

• Gold plated



		PPC	PP0436		PP0437	
Fully Insulated Gold	Cat.	Qty 1+	Qty 10+	Qty 50+		
Red	PP0436	\$9.90	\$8.90	\$7.90		
Black	PP0437	\$9.90	\$8.90	\$7.90		

BANANA BINDING POSTS

Banana Sockets / Binding Posts - Metal

Will accept a banana plug in the end and monster type cable or banana plug in the side. Designed for mounting on the back of amplifiers as mounting thread is only 6mm long.



Amplifier Mount		Cat.	Qty 1+	Qty 10+	Qty 50+
	Red	PT0430	\$5.90	\$5.20	\$4.70
	Black	PT0431	\$5.90	\$5.20	\$4.70

Dual

- Insulated cable entry
- Post spacing 19mm



• Overall dimensions: 58(D) x 20(Dia.)mm

50 Amp Jumbo• 12mm hole size



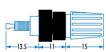
Binding Posts Standard

Incorporates a banana socket.



Premium

Super quality with metal thread.





Col	our	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	Blue	Standard	PT0450	\$2.20	\$1.95	\$1.75
	Yellow	Standard	PT0451	\$2.20	\$1.95	\$1.75
	White	Standard	PT0452	\$2.20	\$1.95	\$1.75
	Red	Standard	PT0453	\$2.20	\$1.95	\$1.75
	Black	Standard	PT0454	\$2.20	\$1.95	\$1.75
	Green	Standard	PT0455	\$2.20	\$1.95	\$1.75
	Red	Premium	PT0460	\$3.60	\$3.20	\$2.80
	Black	Premium	PT0461	\$3.60	\$3.20	\$2.80
	Green	Premium	PT0462	\$3.30	\$2.95	\$2.60
	Red/Black	Dual	PT0457	\$8.90	\$7.90	\$6.90
	Red	50A Jumbo	PT0465	\$7.90	\$7.10	\$6.30
	Black	50A Jumbo	PT0466	\$7.90	\$7.10	\$6.30



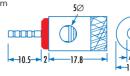
SPEAKER PUSH / SCREW TERMINALS

Jumbo Speaker Cable Terminals

Can't fit your large speaker cable into your speaker box spring terminals? Problem solved!! Simply terminate the thick cable into these gold connectors and the 1.5mm dia. pin easily fits into speaker rear terminals.



• Gold plated





Туре		Cat.	Qty 1+	Qty 5+	Qty 10+
	PT3020	PT3020	\$3.80	\$3.40	\$3.00
	PT3021	PT3021	\$3.80	\$3.40	\$3.00

2 Way - Up to 16AWG

Up to 16AWG cable.

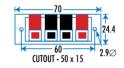
- Mounting holes:
- 45mm apart • Dimensions: 54(L) x 24(W)mm PT3000





PT3000

4 Way - Up to 16AWG

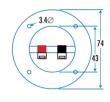




2 Way Large Round Speaker Terminal

Up to 16 AWG cable.

• Cutout 50mm

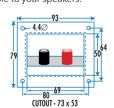




2 Way Speaker Box Terminal

Ideal if you are running large size speaker cable to your speakers.

 Dimensions 92(W)x79(H)mm PT3006

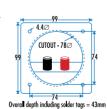




2 Way Gold Terminals on a Plate

Top quality speaker terminal.

- Plate size 99 x 99mm
- Hole cutout is round diameter 78mm PT3012





	110012				
Туре	Cat.	Qty 1+	Qty 5+	Qty 10+	
2 Way	PT3000	\$2.20	\$1.95	\$1.75	
4 Way	PT3002	\$3.80	\$3.40	\$3.00	
2 Way Round	PT3004	\$3.80	\$3.40	\$3.00	
2 Way Speaker Box	PT3006	\$8.90	\$8.00	\$7.10	
2 Way Gold / Plate	PT3012	\$14.90	\$13.90	\$11.90	

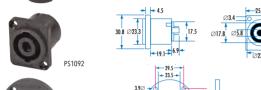
MULTI-PIN AUDIO CONNECTORS

"SPEAKON" LOUDSPEAKER PLUGS & SOCKETS

NEUTRIK Heavy duty, fail-safe speaker connectors

- 4 pole with Locking ring
- Solderless termination
- PS1094 & PS1092 hole
- 30 amp continuous current
- The standard in high power PA speaker connections

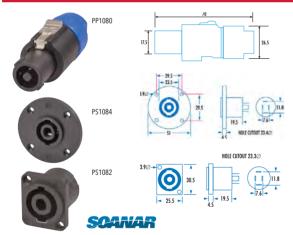




		-31	4.5	
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Inline Speaker Connector 4 Pole	PP1090	\$19.90	\$17.90	\$15.90
Inline Speaker Plug	PP1091	\$25.90	\$22.90	\$20.90
Round Speaker Bin Chassis Mount Plastic	PS1094	\$14.90	\$13.90	\$11.90
Square Chassis Mount Plastic	PS1092	\$14.90	\$13.90	\$11.90

6

AUDIO - ECONOMY RANGE PLUGS, SOCKETS & LEADS



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Inline Speaker 4 Pole Connector	PP1080	\$14.90	\$13.90	\$11.90
Round Speaker	PS1084	\$10.90	\$9.90	\$8.90
Square Speaker Chassis Socket	PS1082	\$10.90	\$9.90	\$8.90

Speakon Lead Extender

Connects Speakon leads together to extend cable runs as far as you need to.

• ABS construction





RELATED PRODUCT: SPEAKON AUDIO LEADS Excellent ready-made cable assemblies for your PA and sound reinforcement applications. 5m WA7100 P. B165 10m WA7102 P. B165

XLR - AMPHENOL® PLUGS & SOCKETS

Typically used for balanced connections such as professional microphones; these connectors are 3 pin & lock on to the socket. The confusion over whether pin 2 or 3 is hot has only relatively recently been resolved. The Standard has been defined by the Audio Engineering Society which we have outlined on the bottom of the this page. Amphenol* have taken over the genuine Cannon brand.

Line - 3 Pin

- Solder type
- Diecast metal shell

Amphenol

Line - 4 Pin

Cannon/Amphenol® Silver

- Diecast metal shell
- Nickel plated

15.8

Amphenol

Amphenol

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP1052	\$9.90	\$8.90	\$7.90
3 Pin - Female	PS1062	\$12.90	\$11.90	\$9.90
4 Pin - Male	PP1040	\$15.90	\$13.90	\$12.90
4 Pin - Female	PS1042	\$20.90	\$18.90	\$16.90

Amphenol® LTW Inline Screw-in Cable Joiner 3P 6.6-8.5mm IP68

Newly developed Cable Joiner from Amphenol LTW, UL FICX series which is compliant with UL2238 standard. The UL FICX is designed with screw terminal termination, providing quick and practical field assembly. It is IP68 rated and equipped with UV

resistant materials, that can meet the needs in LED lighting, CCTV security, Solar and Marine applications. Great for environments where reliable interconnections are required. Easy grip design.

Cat.	Qty 1+	Qty 10+	Qty 50+
PT4660	\$19.90	\$17.90	\$15.90

Chassis Mount D-Series XLR Sockets

High quality Amphenol* brand XLR 3 pole chassis mount sockets. Can be front or rear mounted in P or D series panels. Nickel finish

- 24mm hole cut-out
- D series flange
- Stamped phosphor
- · Bronze contacts

MALE

 Ideal for patch panels, studio, etc

PP1058







- Flammability Rating: UL94-V0
- Current Carrying Capacity: 15A

FEMALE

 Ideal for balanced microphone inputs on mixers, patch panels



rech tall

Туре	Cat.	Qty 1+	Qty 10+	Qty 50+	
Male	PP1058	\$9.90	\$8.90	\$7.90	
Female	PS1054	\$12.90	\$11.90	\$9.90	

XLR WIRING

The Standard is defined by the Audio Engineering Society in AES14-1992(r1998)

Pin 1: Shield/Ground Pin 2: Hot/in Phase / +

Pin 3: Cold / Out of Phase / -

To create an unbalanced connection, pin 1 & pin 3 are connected to ground & pin 2 carries the signal.

Note that there is a lot of equipment (particularly in the US) that has pin 2 & 3 designations reversed (i.e. 3 hot, 2 cold). Manufacturers are adopting the Standard on all new equipment.





A201

XLR/CANNON PLUGS, SOCKETS & ADAPTORS



Туре	Cat.	Qty 1 +	Qty 10+	Qty 50+
3 Pin Black - Male	PP1012	\$5.90	\$5.30	\$4.70
3 Pin Black - Female	PS1015	\$6.90	\$6.20	\$5.50
3 Pin R/A Black - Male	PP1020	\$14.90	\$13.90	\$11.90
3 Pin R/A Black - Female	PS1022	\$14.90	\$13.90	\$11.90

Waterproof IP67 XLR Line Connectors

A matching IP67 waterproof plug and socket suitable for harsh environments. Great for use with PA gear and cabling that are used in outdoor conditions.



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin Black - Line Plug IP67	PP1013	\$13.90	\$12.90	\$10.90
3 Pin Black - Line Socket IP67	PS1017	\$11.90	\$10.70	\$9.50

Combo XLR / 6.35mm Stereo Socket Switched

Combined 3 pole XLR & 6.35mm stereo jack for balanced microphone or line. It will accept 6.35mm mono, 6.35mm stereo or 3-pin male XLR. Suits D-series panel cut-outs.

- Non-locking Panel or PCB mounting
- Switched Independent inputs
- Gold plated contacts

• Gold plated contacts					
Туре	Cat.	Qty 1 +	Qty 10+	Qty 50+	
3 Pole	PS1069	\$9.90	\$8.90	\$7.90	

3 Pin Chassis - Plastic

• Hole cutout 22mm • Black ABS plastic

body









Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic-Male	PP1016	\$5.80	\$5.20	\$4.60
Plastic- Female	PS1018	\$5.20	\$4.65	\$4.15

3 Pin Chassis - Metal

- Black
- Diecast body.



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Metal - Female - Hole cutout 24mm	PS1014	\$8.90	\$8.00	\$7.10

Chassis Metal

- Small size, diecast body, nickel plated
- Hole cutout 24mm









Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Small Size Metal - Male	PP1023	\$7.90	\$7.10	\$6.30
Small Size Metal - Female	PS1024	\$8.90	\$8.00	\$7.10

Rubber XLR Cover Boot

This 120mm flexible boot slips over the entire XLR - XLR connection to keep water and dust out. Indispensable for protecting permanent connections from damage & dust.



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
XLR Boot Cover	PM1034	\$1.90	\$1.70	\$1.50

XLR 3 Pin Adaptors





Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA3684	\$15.90	\$13.90	\$12.90
Female	PA3686	\$16.90	\$14.90	\$13.90

XLR to 6.5mm Plug Adaptors

High quality, metal construction, ideal for converting microphone leads to 6.5mm plugs.





Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA3680	\$11.90	\$10.90	\$9.90
Female	PA3682	\$15.90	\$13.70	\$12.30

XLR to RCA Adaptors





		H3000		173002
Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA3800	\$11.90	\$10.70	\$9.50
Female	PA3802	\$12.90	\$11.30	\$10.30

Waterproof & Dust Proof **XLR Plate Mount**

Suitable for wet and harsh environments. Features an IPX6 rated rubber gasket and cover to prevent ingress when not in use. Surface mount via screws, hole required for socket recess.

• Dimensions: 43(L) x 35(W) x 35(D)mm



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP1014	\$9.90	\$8.90	\$7.90

MINI XLR PLUGS & SOCKETS

3, 4 Pin Line

• Diecast body - Nickel plated









PP1910	PS1924		PP191	2	PS1926
Туре		Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male		PP1910	\$7.90	\$7.10	\$6.30
3 Pin - Female		PS1924	\$8.90	\$8.00	\$7.10
4 Pin - Male		PP1912	\$7.90	\$7.10	\$6.30
4 Pin - Female		PS1926	\$8.90	\$8.00	\$7.10

3, 4 Pin Chassis **3 PIN MALE**

• Diecast - Nickel plated







3 PIN FEMALE



Cut out 15mm.

4 PIN MALE







PS1932

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP1916	\$8.90	\$8.00	\$7.10
3 Pin - Female	PS1930	\$10.90	\$9.90	\$8.90
4 Pin - Male	PP1918	\$8.90	\$8.00	\$7.10
4 Pin - Female	PS1932	\$10.90	\$9.90	\$8.90

AV WALLPLATES & INSERTS

WALLPLATES STAINLESS STEEL

No matter what audio installation you're contemplating, you're sure to find a wallplate to give your room that pro look. Finished in attractive stainless steel, these cost-effective wallplates have all the popular audio connectors, or use a blank to customise your own. Ideal for Hi-Fi installations, home studios, home theatre or just a neat solution to running an AV extension to

another room.

XLR - Blank

Pre-punched blanks for XLR sockets.

• Sockets not included



	PS0551	PS0551		2	
Туре	Cat.	Qty 1+	Qty 2+	Qty 5+	
Single Blank	PS0551	\$5.80	\$5.20	\$4.60	
Double Blank	PS0552	\$5.90	\$5.30	\$4.70	

XLR - Loaded

Pre-punched wallplate with loaded XLR socket(s).







•			6	ı
3		PS0554		-
Qty 1+	Qt	y 2+	Q ty 5+	
\$8.90	\$8.	00	\$7.10	

Туре	Cat.	Qty 1+	Qty 2+	Qty 5+
Single 3 pin Female XLRs	PS0553	\$8.90	\$8.00	\$7.10
Double 3 pin Female XLRs	PS0554	\$13.90	\$12.90	\$10.90

WALLPLATES & SOCKETS

DVI Wallplate Socket with 4 Keystone Ports

Features a DVI socket to socket joined to the wallplate with standard D-sub screws as well as 4 keystone ports. Expand your wallplate with a combination of other required sockets.

• Dimensions: 115(L) x 70(W)mm



Туре	Cat.	Qty 1+	Qty 5+
DVI 4 Port	YN8057	\$7.90	\$7.10

Keystone Wallplates

Flush type wallplates accept our standard keystone 110 jacks. Fits standard Australian switch plate installation hardware and screw centres, making it perfect for easy flush installation on plasterboard or other cavity walls.

- Supplied without keystone jacks
- Dimensions: 70(W) x 114(H) x 6(D)mm



YN8054

Туре		Cat.	Qty 1+	Qty 5+	Qty 10+
Single	White	YN8050	\$2.20	\$1.95	\$1.75
Double	White	YN8052	\$2.20	\$1.95	\$1.75
Triple	White	YN8054	\$2.20	\$1.95	\$1.75
Quad	White	YN8056	\$2.20	\$1.95	\$1.75
6 Way	White	YN8058	\$2.20	\$1.95	\$1.75

YN8050

KEYSTONE INSERTS

Inserts for Keystone Wallplates

A range of inserts to cater for computer and Audio video applications. They fit standard 110 keystone wallplates and allow you to configure your installation any way you like.











YN8058





PS0764



PS0765





























	PS	50773	PS07	74	PS0775	PS0777	PS0779		PS0799	PS0800	
Туре	Cat.	Qty 1 +	Q ty 5+	Qty 10+	Туре			Cat.	Qty 1+	Qty 5+	Qty 10+
TOSLINK - TOSLINK	PS0749	\$4.50	\$4.05	\$3.60	S-Video	- S Video		PS0769	\$2.20	\$1.95	\$1.75
USB - USB Female	PS0753	\$5.60	\$5.00	\$4.45	HDMI -	HDMI - White		PS0771	\$11.90	\$10.90	\$9.90
USB - USB Right Angle	PS0795	\$6.90	\$6.20	\$5.50	HDMI -	HDMI - Right Angle	d	PS0796	\$11.90	\$10.90	\$9.90
F81 - F81 - White	PS0761	\$3.30	\$2.95	\$2.60	HDMI -	HDMI - Flylead		PS0797	\$12.90	\$11.90	\$9.90
BNC - BNC - White	PS0763	\$3.30	\$2.95	\$2.60	USB - U	SB - White		PS0773	\$5.60	\$5.00	\$4.45
RCA - RCA - White	PS0764	\$3.80	\$3.40	\$3.00	4mm B	anana - Red		PS0774	\$4.50	\$4.05	\$3.60
RCA - RCA - Red	PS0765	\$3.80	\$3.40	\$3.00	4mm B	anana - Black		PS0775	\$4.50	\$4.05	\$3.60
RCA - RCA - Yellow	PS0767	\$3.80	\$3.40	\$3.00	3.5mm	Stereo Socket		PS0777	\$4.50	\$4.05	\$3.60
RCA - RCA - Blue	PS0794	\$3.80	\$3.40	\$3.00	Blank II	nsert		PS0779	\$0.40	\$0.36	\$0.32
RCA - RCA - Green	PS0798	\$3.80	\$3.40	\$3.00	USB 3.0	0-USB 3.0 - White		PS0799	\$13.90	\$12.90	\$10.90
					USB-C	3.2 - USB-C 3.2 NE 1	N	PS0800	\$16.90	\$14.90	\$13.90

Automatic Accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

HARDCORE ELECTRONICS

MICROPHONE SERIES PLUGS & SOCKETS

Microphone Chassis Male

- Solid metal machined body
- Nickel plated
- 10A max 32VDC











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PP20	13	PP2010 P	P2017				
Туре			Cat.	Qty 1+	Qty 10+	Qty 50+	
2 Pin			PP2013	\$4.10	\$3.65	\$3.25	
4 Pin			PP2010	\$4.10	\$3.65	\$3.25	
5 Pin			PP2017	\$4.10	\$3.65	\$3.25	

Microphone Line FEMALE

- Solid metal machined body
- Nickel plated
- Also suitable for secure, low voltage DC connection
- 10A max 32VDC







PC2018

	PS2014		PS2012	P52018	
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+	
2 Pin	PS2014	\$4.40	\$3.95	\$3.50	
4 Pin	PS2012	\$4.40	\$3.95	\$3.50	
5 Pin	PS2018	\$4.40	\$3.95	\$3.50	

DIN PLUGS & SOCKETS

DIN Plugs & Sockets

Originally a German standard, these connectors are available in versions from 2 to 13 pins. Once widely used, these are now seen less on AV equipment. The 2 pin version is used for some loudspeakers and 5 pin version is still used for connecting MIDI electronic musical instruments & older PC keyboards.

Line DIN Plugs



Type

2 Pin

3 Pin

5 Pin

6 Pin

7 Pin

8 Pin

5 Pin 240°

5 Pin Premium Die Cast





Cat.

PP0300

PP0302

PP0304

PP0305

PP0306

PP0308

PP0310

PP0312





PF	0310	PP0312
Qty 1 +	Qty 10+	Qty 50+
\$1.45	\$1.30	\$1.15
\$1.70	\$1.50	\$1.35
\$1.90	\$1.70	\$1.50
\$1.90	\$1.70	\$1.50
\$4.50	\$3.90	\$3.60
\$2.70	\$2.40	\$2.15

\$2.40

\$2.40

Line Sockets - 5, 6, 8 Pin

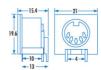


\$2.70

\$2.70

	P50352		PS0355	PS0358
Type	Cat.	Qty 1 +	Qty 10+	Qty 50+
5 Pin	PS0352	\$2.20	\$1.95	\$1.75
6 Pin	PS0355	\$2.90	\$2.60	\$2.30
Q Din	DCU328	¢3 00	¢3 10	¢2.70

5 Pin Right Angle PCB Socket





\$2.15

\$2.15

Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
5 Pin Right Angle	PS0350	\$2.50	\$2.00	\$1.80

2, 5, 6, 8 Pin Panel Sockets

Nickel plated













PS0354

Hole cutout 15mm.

PS0348 PS0359 Hole cutout 15mm.

Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PS0340	\$1.85	\$1.65	\$1.45
5 Pin	PS0348	\$2.10	\$1.85	\$1.65
6 Pin	PS0354	\$2.60	\$2.30	\$2.05
8 Pin	PS0359	\$3.90	\$3.10	\$2.70

MINI DIN PLUGS, SOCKETS & ADAPTORS

Mini DIN Plugs









Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin - Nickel Plated	PP0362	\$5.80	\$5.20	\$4.60
4 Pin - Nickel Plated	PP0364	\$2.90	\$2.60	\$2.30
4 Pin - Gold Plated - 6mm	PP0365	\$7.90	\$7.20	\$6.50
6 Pin - Nickel Plated	PP0366	\$3.40	\$3.05	\$2.70
8 Pin - Nickel Plated	PP0370	\$2.90	\$2.60	\$2.30

4 & 6 Pin Line Sockets





Гуре	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin	PS0372	\$2.90	\$2.60	\$2.30
6 Pin	PS0368	\$2.90	\$2.60	\$2.30

4 & 6 Pin Panel Sockets

Cutout 10mm. Nickel plated





Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin	PS0376	\$3.50	\$2.90	\$2.60
6 Pin	PS0377	\$3.50	\$2.90	\$2.60



ANTENNA & RF CONNECTORS

COAXIAL - PAL PLUGS & SOCKETS

These are the standard aerial connectors for TVs and video recorders. They are often called "Belling-Lee" or "PAL" connectors.

- Generally Nickel plated
- Some are machined out of aluminium



PP0606

PP0607

PP0608

PS0622

75 Ohm Chassis Mount Socket

• Nickel plated

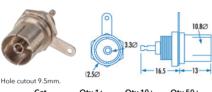
R/A Solderless

Crimp - RG59

Crimp - RG6

Joiner

• High quality product



\$3.90

\$3.90

\$3.90

\$2.20

\$3.10

\$3.10

\$3.10

\$1.95

\$2.70

\$2.70

\$2.70

\$1.75





Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic	PS0610	\$2.50	\$1.80	\$1.60
Nickel Plated	PS0614	\$3.20	\$2.85	\$2.55
Right Angle Solderless	PS0612	\$4.50	\$3.60	\$3.30
Crimp - RG59	PS0611	\$3.50	\$2.90	\$2.60
Crimp - RG6	PS0613	\$3.50	\$2.90	\$2.60
Gold	PS0605	\$6.90	\$6.20	\$5.50
Joiner	PS0620	\$2.20	\$1.95	\$1.75

75 Ohm Cable Joiner

- Hardwire connection for almost any braided coax or screened audio cable up to 7mm dia.
- Only modest cord anchoring





Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

COAXIAL - ADAPTORS



Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
PAL Plug to RCA Socket	PA3675	\$4.90	\$4.10	\$3.70
PAL Socket to PAL Socket	PS0620	\$2.20	\$1.95	\$1.75
PAL Plug to PAL Plug	PS0622	\$2.20	\$1.95	\$1.75
PAL Plug to PAL Socket - Right Angle	PA3679	\$5.90	\$5.20	\$4.70
F Socket to PAL Socket	PA3656	\$4.90	\$4.10	\$3.70
PAL Plug to F-Type Socket	PA3653	\$4.90	\$4.10	\$3.70
PAL Plug to F-Type Socket - Right Angle	PA3673	\$5.90	\$5.20	\$4.70
F-Type Plug to PAL Socket	PA3672	\$2.50	\$2.00	\$1.80
F-Type Plug to PAL Plug	PA3671	\$3.90	\$3.10	\$2.70
F-Type Plug to F-81 Socket - Right Angle	PA3674	\$4.90	\$4.10	\$3.70
F-Type Plug to Plug	PA0633	\$2.20	\$1.95	\$1.75

COAXIAL - F TYPE PLUGS, SOCKETS & ADAPTORS

Used mainly for RF signals such as those for satellite dishes, cable boxes or TV aerials. The highest quality connections between your cable/satellite wallplate output and the cable/satellite box. Standard emerged from the US cable TV industry. Now the Aust./NZ standard.

F Type Plugs

 ${\sf F}$ connectors recommended for all new TV installations

- Suits RG59 or RG6 cable
- Nickel plated



RELATED PRODUCT

Heavy Duty Coax Crimping Tool

This tool is specifically designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto coax cable for TV and communications applications. It also has adjustable crimp force and 3 hex dies: 2.54mm, 9.12mm & 10.3mm



Qty 3+

TH1832 \$39.90 \$35.90 \$31.90

Qty 1+

p.A38 - more crimping tools p.A229 - coaxial cable

Cat.

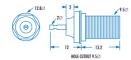
Qty 6+

COAXIAL - F-TYPE PLUGS, SOCKETS & ADAPTORS

F-Type Chassis Socket

Hole cutout 9.5mm.

Nickel plated





Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
F-61 Chassis	PS0645	\$2.50	\$1.80	\$1.60

F-Type Type screw-On Plugs

These are ideal crimpless but strong F-plugs for low volume applications. Highly recommended. Simply strip coax back about 12mm, fold braid/foil back over the plastic outer sheath. Trim about 8mm of foam insulation from centre conductor. Then simply screw the knurled connector on the cable until you see sufficient centre conductor out of the front of the connector.



Nickel plated

Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Suits RG59 Cable	PP0637	\$2.00	\$1.80	\$1.60
Suits RG6 Cable	PP0638	\$2.00	\$1.80	\$1.60

Crimpless F-Type Plug to RG6

No crimper or soldering required.



Cat.	Qty 1+	Qty 10+	Qty 50+
PP0671	\$3.90	\$3.10	\$2.70

F-Type Tool-Less Compression Crimp Connector

No crimping tool required. Just strip back the outer and inner sheath, fold the braid back and push the connector on. The crimp is reliable with high mechanical strength and will never come off. Suitable for RG6 quad shield coax.



Cat.	Qty 1+	Qty 10+	Qty 50+
PP0677	\$3.00	\$2.60	\$2.30

F-Type Line Plug - Solderless Type

Screw assembly - no soldering is required.



Cat.	Qty 1+	Qty 10+	Qty 50+	
PP0709	\$4.10	\$3.65	\$3.25	

F-Type Type 75 Ohm Dummy Load

Simply screw on to unused ports of splitters, etc to maintain good VSWR.

Nickel plated



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Dummy Load	PP0639	\$2.00	\$1.80	\$1.60

F-Type Inline Joiner

Nickel plated



Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
F-81 Inline Joiner	PS0646	\$2.50	\$2.00	\$1.80

F-Type Inline Joiner - Foxtel Approved

- Socket to Socket
- Foxtel Approved



Cat.	Qty 1 +	Qty 4+	Qty 10+
PP0648	\$5.90	\$5.30	\$4.70

Tool-Less F-Type RG6 Plug

Just strip the end of your RG6 coax cable and apply the connector. No crimping tools, no soldering and nothing could be simpler!



Cat.	Qty 1+	Qty 10+	Qty 50+	
PP0601	\$2.20	\$1.95	\$1.75	

FME

FME Line

As used on some mobile phone car kits.

• Crimp

Type Plug

Socket

- Nickel plated



PS0712

FME-TNC

Female Adaptor



\$4.90

\$4 10

FME Plug to PL259 UHF Plug Adaptor



PS0712

Qtv 50+

\$4.70

\$3.70

Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to Plug	PA0611	\$11.90	\$10.90	\$9.90

TNC **Line Pluas** PP0664 PP0665 Туре Qty 1+ Qty 10+ Qty 50+ PP0664 \$4.90 \$4.10 \$3.70 Solder \$3.70 Crimp - RG58U PP0665 \$4.90 \$4.10

PP0667

\$4.90

Crimp - RG59U







\$3.70

PP0672	PS0673		PS067	4
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Plug - suits RG58U	PP0672	\$7.90	\$7.10	\$6.30
Line Socket - suits RG58U	PS0673	\$8.90	\$8.00	\$7.10
Panel Socket	PS0674	\$8.90	\$7.90	\$6.90

All products on this page generally nickel plated

RELATED PRODUCT

Hex Ratchet Crimping Tool

Heavy duty ratchet tool designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto RG6, RG58 or RG59 coax cable. It features adjustable crimping force and ratchet mechanism for complete repeatability. Four hex crimping dies: WARRANTY 1.72mm, 5.49mm, 8.23mm and 9.14mm.



Cat.	Qty 1+	Qty 3+	City 6+
TH1833	\$47.90	\$42.90	\$38.40

ANTENNA & VIDEO CONNECTORS

BNC

BNC plugs lock on to the socket and are used for some digital audio connections as well as for video connections, particularly CCTV.

Male Line Plugs



	110030	110000	110	007	110032
Туре		Cat.	Qty 1+	Qty 10+	Qty 50+
Male Line Plugs		PP0650	\$4.40	\$3.95	\$3.50
Crimp RG59		PP0688	\$4.60	\$4.10	\$3.65
Crimp RG6		PP0689	\$4.60	\$4.10	\$3.65
Solderless Type		PP0652	\$5.60	\$5.00	\$4.40
Crimp RG6		PP0689	\$4.60	\$4.10	\$3.65

Crimpless BNC Plug to RG6

No crimper or soldering required.









Туре	Cat.	Qty 1+	Qty 10+	Qty 50+	
0.7mm Centre Pin - suits RG59	PP0647	\$3.30	\$2.90	\$2.60	
0.9mm Centre Pin - suits Belden	PP0651	\$3.30	\$2.90	\$2.60	
Crimp Type - RG58	PP0649	\$3.30	\$2.90	\$2.60	
Crimp Type - RG6	PP0657	\$3.30	\$2.90	\$2.60	
Compression Crimp	PP0669	\$4.00	\$3.60	\$3.20	

Crimp Plug Boot

Suits - PP0695 Mini UHF plug, PS0660 BNC female line crimp, PP0649 BNC RG58 Crimp plug & PP0651 BNC RG59 Crimp plug.





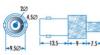


Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Twist on for RG59 0.9mm centre	PP0678	\$4.50	\$4.00	\$3.60
Twist on for RG6	PP0679	\$4.50	\$4.00	\$3.60
Terminator plug with 50Ω resistor	PP0655	\$5.90	\$5.20	\$4.70

Line Sockets







PS0662

\$5.20

\$4.60

	1 30000	1 30003			
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+	
Line Socket - RG58	PS0660	\$4.60	\$4.10	\$3.65	
Line Socket - RG6	PS0659	\$4.60	\$4.10	\$3.65	
Joiner	PS0663	\$4.90	\$4.10	\$3.70	

Chassis Sockets

Hole cutout 9.5mm.



Double Female Mount



PS0662

\$5.80

• PCB connect with optional panel screw fixing



BNC with Terminals





Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Screw Terminal	PA3715	\$6.90	\$6.20	\$5.50
Spring Terminal	PA3716	\$6.90	\$6.20	\$5.50

BNC Adaptors







PA3665





	PA3652	PA0681		PA:	3663	
T	Гуре	Cat.	Qty 1+	Qty 4+	Qty 10+	
Е	BNC Plug to F59 Plug Adaptor	PA3661	\$5.90	\$5.20	\$4.70	
Е	BNC Adaptor 1 Male to 2 Female - T	PA3662	\$7.90	\$7.20	\$6.50	
Е	BNC Adaptor 1 Male to 2 Female - Y	PA3664	\$11.90	\$10.70	\$9.50	
Е	BNC T Adaptor	PA3660	\$5.90	\$5.20	\$4.70	
	BNC Male to Double Binding Sockets/ Banana Sockets	PA3666	\$10.90	\$9.50	\$8.50	
Е	BNC Plug to BNC Plug Adaptor	PA3665	\$5.90	\$5.20	\$4.70	
Е	BNC Plug to F-81 Socket	PA3651	\$2.60	\$2.30	\$2.05	
Е	BNC Plug to RCA Socket	PA3654	\$4.90	\$4.10	\$3.70	
F	PL259 Plug to BNC Socket	PA3652	\$8.90	\$7.90	\$6.90	
P	PL259 Plug to BNC Plug	PA0681	\$4.90	\$4.30	\$3.90	
Е	BNC Plug to BNC Socket R/A	PA3663	\$5.90	\$5.20	\$4.70	

RJ11/12 MODULAR

50μ" Gold Contact.

4 PIN FOR STRANDED CABLE 4/4 - RJ11









**					
Туре	Cat.	Qty 1+	Qty 5+	Qty 20+	
RJ11 - Pack of 5	PP1430	\$3.10	\$2.75	\$2.45	
RJ11 - Pack of 50	PP1431	\$24.90	\$22.40	\$19.90	
RJ12 - Pack of 5	PP1432	\$3.80	\$3.40	\$3.00	
R I12 - Pack of 50	PP1433	\$29.90	\$26.90	\$23.90	

PCB Modular Sockets

Side entry. Not ACMA Approved







Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
4/4 - RJ11	PS1470	\$2.10	\$1.85	\$1.65
6/6 - RJ12	PS1474	\$2.60	\$2.30	\$2.05

RJ45 MODULAR

Modular Plugs

50μ" Gold Contact

8/8 - RJ45

Not ACMA Approved





8P8C with full screening and round cable entry for connection to STP cable.



	- manifest
E 4.	O+v 20 t

Pack	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP1437	\$17.90	\$15.90	\$14.30

RJ45 MODULAR PLUGS FOR STRANDED/SOLID CAT6 CABLE PK10

RJ45 Modular Plugs for Stranded and Solid Cat6 Cable. Pack of 10.





Туре	Pack	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ45 Stranded	10	PP1447	\$16.90	\$14.90	\$13.90

8/8 - RJ45



8 PIN FOR FLAT STRANDED CABLE

8 PIN FOR ROUND SOLID
CORE CABLE



PM1///1

Approved		Approve	d		
Туре	Pack	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ45 Stranded	5	PP1434	\$7.90	\$7.20	\$6.50
RJ45 Stranded	50	PP1435	\$36.90	\$33.20	\$29.50
RJ45 Solid	6	PP1438	\$8.90	\$7.90	\$6.90
RJ45 Solid	50	PP1439	\$44.90	\$39.90	\$35.90

RJ45 BOOTS

A packet of boots to suit RJ45 8/8 plugs

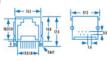


Pack	Cat.	Qty 1+	Qty 5+	Qty 20+	
10	PM1441	\$5.90	\$5.20	\$4.90	
50 Blue	PM1442	\$20.90	\$18.90	\$16.90	

8 PIN PCB MODULAR SOCKET

Side entry

Not ACMA approved



	133/0			
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
8/8 - RJ45	PS1478	\$3.20	\$2.85	\$2.55

Waterproof RJ45 Cable Connector Housing

Allows you to join two Cat5e cables while providing a robust and waterproof connection. Use around the garage, factory or workshop to avoid dust or water ingress, or to survive the knocks and bumps around the office. Includes 2-way Cat5 joiner, but will also accommodate any connector that fits within the internal dimensions of the housing.

• IP Rating: IP68

Accepts cables: 4 - 7mm Dia

• Dimensions: 120(L x 35(Dia.)mm

*Not ACMA approved.



	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	PS4064	\$26.90	\$23.90	\$21.90

TELEPHONE

Telephone 610 Wall Socket

For other telephone leads. adaptors - see our Computer & Multimedia section

Blister pack

ACMA Approved



Туре	Cat.	
610	PS1410	Not available in New Zealand

WALLPLATES & SOCKETS

Australian / NZ Flush Plates

Our premium Australian / NZ flush plates not only accept our Cat5e jacks, they are also compatible with many other standard Australian mechanisms and jacks.

- Fits standard Australian/NZ switch plates
- Perfect for easy flush installation on Gyprock walls
- Supplied unloaded without jacks (see Cat. YN8036)
- 116(W) x 75(H) x 13(D)mm
- Will also accept Clipsal 2000 modules



Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	YN8015	\$7.90	\$7.10	\$6.30
Double	YN8016	\$7.90	\$7.10	\$6.30

RJ12 IDC Socket for Flush Plates

Voice grade RJ12 6P4C IDC jack with 2 IDC connections per contact allowing easy loop-in, loop-out for typical voice applications. Compatible with most standard Australian flush plates. Rear termination with IDC impact tool.

Cat.	Qty 1+	Qty 5+	Qty 20+
YN8035	\$11.90	\$10.70	\$9.50

Cat5e IDC Jack to Suit Australian & NZ **Style Flush Plates**

Our premium Cat5e IDC data jack designed to suit our wallplates shown above. They also suit many other brands of Australian/NZ flush plates.

Rear terminated with 110 or Krone impact tool

- T568A & T568B colour coding for easy installation
- Suit YN8015/16 flush plates

Cat.	Qty 1+	Qty 4+	Qty 10+	
YN8036	\$11.90	\$10.70	\$9.50	





KEYSTONE SOCKETS

Inserts for Keystone Wallplates









p.A240

Туре	Cat.	Qty 1+	Qty 5+	Qty 10+
RJ11	YN8026	\$4.50	\$4.05	\$3.60
RJ12	YN8027	\$4.50	\$4.05	\$3.60
RJ45 Cat5e	YN8028	\$4.50	\$4.05	\$3.60
RJ45 Cat6	YN8029	\$4.50	\$4.05	\$3.60

110 Keystone Jack

Suitable for use with our keystone wall plates and keystone surface boxes.

- For termination with ISBY impact tool and has combined 568A and T568B colour coding for easy installation
- White in colour

Cat.	Qty 1+	Qty 4+	Qty 10+
YN8030	\$11.90	\$10.70	\$9.50

Keystone Surface Box

Side entry surface mount boxes accept our standard keystone 110 jacks.

- Snap-on cover for easy access to wiring
 Double sided tape for easy installation
- Supplied unloaded without keystone





W x H x D (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Single 30 x 60 x 26	YN8022	\$6.90	\$6.20	\$5.50
Double 55 x 60 x 26	YN8024	\$7.90	\$7.10	\$6.30

USB & COMMUNICATION CONNECTORS

USB/HDMI

Type A & Type B Plugs

With solder lugs.



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
A	PP0790	\$2.90	\$2.60	\$2.30
В	PP0792	\$2.90	\$2.60	\$2.30

Type A & Type B PC Mount Sockets

4P4C.





Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
A	PS0916	\$3.90	\$3.10	\$2.70
В	PS0920	\$3.90	\$3.10	\$2.70
Micro B	PS0922	\$3.90	\$3.60	\$3.20

PS0920

Type A IP67 RATED PLUG CABLES

Industrial USB connectors encased in robust housing with IP67 seal.

- Current rating 1.5A -40°C to +105°C
- PBT UL94V-0 body



• PBT UL94V-0 body	LTW				
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+	
A Male 1m Lead	PP0784	\$17.90	\$16.10	\$14.30	

Type A Panel Mount USB Sockets

Panel-mounting Type A USB socket.

- Suits panels up to 10mm thick
- Mounting hole 20mm



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
A Female	PS0782	\$24.90	\$22.40	\$19.90

PCB Mount Plugs & Sockets

A range of PC mount connectors to suit the latest **USB & HDMI** technologies



USB	PS0924	PP0925	P	S0928	PS0930	
Туре		Cat.	Qty 1+	Qty 10+	Qty 50+	
Type-A 3.0 Male		PP0923	\$4.50	\$4.00	\$3.60	
Type-A 3.0 Female		PS0924	\$4.50	\$4.00	\$3.60	
Type-A Micro 3.0 M	lale	PP0925	\$4.50	\$4.00	\$3.60	
Type-A Micro 3.0 Fe	emale	PS0926	\$4.50	\$4.00	\$3.60	
Type-B 3.0 Female		PS0928	\$4.50	\$4.00	\$3.60	
Type-C 2.0/3.0/3.1	Male	PP0929	\$4.50	\$4.00	\$3.60	
Type-C 3.1 Female		PS0930	\$4.50	\$4.00	\$3.60	



PS0946

PP0943

PS0944

\$4.50

\$4.50

\$4.50

\$4.00

\$4.00

\$4.00

\$3.60

\$3.60

\$3.60

USB Mini-B PC Mount Socket

High quality gold plated contacts.

- Quality gold plated contacts
- PCB Mount



Cat.	City IT	City 10+	City 30+
PS0921	\$3.30	\$2.95	\$2.60

USB 3.0 Type A Plug to 10-Way Terminals

USB Type A plug to a 10-way screw terminal block for temporary or prototyping applications. No soldering required.



	Cat.	Qty 1+	Qty 10+	Qty 50+	
USB 3.0 Type-A	PA0956	\$14.90	\$13.90	\$11.90	

USB 2.0 Plugs to 4-Way Terminals

USB plug to a 4-way screw terminal block for temporary or prototyping applications. No soldering required.



	Cat.	Qty 1+	Qty 10+	Qty 50+
USB 2.0 Micro B	PA0952	\$14.90	\$13.90	\$11.90
USB 2.0 Mini B	PA0950	\$10.90	\$9.90	\$8.90
USB 2.0 Type-A	PA0954	\$10.90	\$9.90	\$8.90

Carries stereo audio, composite video, S-video & RGB signals from an AV source to your TV & also allow's recording to other sources, for example VCR's. Originated in Europe.

SCART ADAPTOR

SCART Plug to 3 RCA sockets & a S-Video Socket.





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join now!

Micro Female

Mini Plug

Mini Female

SMA

SMA Connectors

• Gold plated



	110032	FF0031	130034	110033
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Plug - RG58 - Crimp	PP063	32 \$6.90	\$5.90	\$5.20
Right Angle Plug - RG174 - Crimp	PP063	31 \$7.90	\$7.20	\$6.50
Line Socket - RG174 - Solder	PS063	\$5.90	\$5.20	\$4.70
Line Plug - RG58 - Crimp - R/A	PP063	33 \$6.90	\$6.20	\$5.50

SMA Reverse

Gold plated



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Reverse Line Plug - RG174U	PP0590	\$7.90	\$7.20	\$6.50
Reverse Line Socket	PS0592	\$7.90	\$7.20	\$6.50

SMA Adaptors

 Nickel or Gold plated





















PA0622







PA0618



PA0631





Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
SMA Socket to Reverse SMA Plug	PA0627	\$8.90	\$8.00	\$7.10
SMA Socket to Reverse SMA Socket	PA0629	\$8.90	\$8.00	\$7.10
SMA Plug to PL259 Socket	PA0612	\$9.90	\$8.90	\$7.90
FME Socket to SMA Socket	PA0620	\$6.90	\$6.20	\$5.50
SMA Socket to FME Plug	PA0621	\$6.90	\$6.20	\$5.50
SMA Plug to SMA Plug	PA0622	\$7.90	\$7.10	\$6.30
SMA Socket to BNC Socket	PA0624	\$6.90	\$6.20	\$5.50
SMA Socket to BNC Socket	PA0615	\$7.90	\$7.10	\$6.30
N Plug to SMA Socket	PA0616	\$8.90	\$8.00	\$7.10
N Socket to SMA Socket	PA0617	\$8.90	\$8.00	\$7.10
SMA Coupler	PA0635	\$8.90	\$8.00	\$7.10
SMA Socket to PL259 UHF Plug	PA0613	\$11.90	\$10.90	\$9.90
SMA Plug to FME Plug	PA0618	\$8.90	\$8.00	\$7.10
SMA Plug to SMA Plug - R/A	PA0631	\$11.90	\$10.90	\$9.90
SMA Socket to SMA Socket - R/A	PA0632	\$11.90	\$10.90	\$9.90
SMA Plug to Reverse SMA Socket	PA0630	\$8.90	\$8.00	\$7.10

UHF PLUGS & SOCKETS

UHF - Mini Male Line Plugs

• Nickel plated



			0075	
Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Crimp - RG58U	PP0695	\$5.90	\$5.20	\$4.70
Crimp - RG59	PP0694	\$5.90	\$5.20	\$4.70

UHF Line Plugs - PL259 Type

• Nickel plated





	Cat.	Qty 1+	Qty 10+	Qty 50+	
Solder - RG-58U - with Reducer	PP0680	\$4.10	\$3.65	\$3.25	
Solder - RG-8U	PP0682	\$4.10	\$3.65	\$3.25	

UHF Joiner & Socket

• Nickel plated





Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Joiner - Double Female	PS0690	\$4.90	\$4.10	\$3.70
SO239 Chassis Socket	PS0686	\$4.10	\$3.65	\$3.25



toyes of uhf hardware



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Freecall order hotline: 0800 452 922

D-SUB DATA CONNECTORS

D CONNECTORS PLUGS, SOCKETS & HARDWARE



Sizes shown in mm. Size 9 Pin 30.81 24.99 16.92 11.09 2.74 16 24 25 Pin 53 04 38 04 38 38 33 24

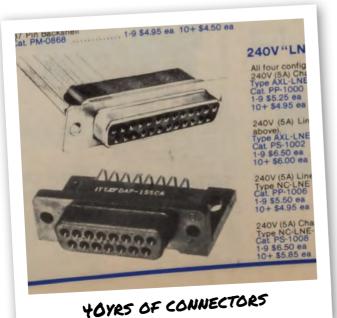
Z3 FIII 3	13.04 47.04	30.70 30.30	33.24	2.77	PS0846	
Туре	Pin	Ca	at.	Qty 1+	Qty 10+	Qty 50+
IDC Plug	9 Pin	PP	0802	\$4.90	\$4.10	\$3.70
IDC Plug	15 Pir	n PP	0821	\$5.50	\$4.70	\$4.10
IDC Plug	25 Pir	n PP	0842	\$5.90	\$4.90	\$4.40
IDC Socket	9 Pin	PS	0805	\$4.90	\$4.10	\$3.70
IDC Socket	15 Pir	n PS	0825	\$5.50	\$4.70	\$4.10
IDC Socket	25 Pir	n PS	0846	\$5.90	\$4.90	\$4.40

D Male / Female **Male Solder**

All 'D' connectors have quality gold plated contacts & nickel plated shells.



	PP	0843		PSC	1845
Туре	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Solder	9 Pin	PP0800	\$1.90	\$1.50	\$1.30
Plug Solder	15 Pin	PP0820	\$2.50	\$2.00	\$1.80
Plug Solder	15HD Pin	PP0831	\$4.50	\$3.90	\$3.40
Plug Solder	25 Pin	PP0840	\$2.50	\$2.00	\$1.80
Plug Solder	37 Pin	PP0860	\$5.90	\$5.20	\$4.70
Socket Solder	9 Pin	PS0804	\$2.50	\$2.00	\$1.80
Socket Solder	15 Pin	PS0824	\$2.50	\$2.00	\$1.80
Socket Solder	15HD Pin	PS0832	\$4.50	\$3.90	\$3.40
Socket Solder	25 Pin	PS0844	\$2.50	\$2.00	\$1.80
Socket Solder	37 Pin	PS0864	\$5.90	\$5.20	\$4.70
R/A Plug Solder	9 Pin	PP0803	\$3.90	\$3.10	\$2.70
R/A Plug Solder	25 Pin	PP0843	\$4.50	\$3.90	\$3.40
R/A Socket Solder	9 Pin	PS0806	\$3.90	\$3.10	\$2.70
R/A Socket Solder	25 Pin	PS0845	\$4.50	\$3.90	\$3.40



D-Sub Socket IP67 Harsh Environment

Robust D-Sub socket housed in industrial body and IP67 waterproof housing.

- Current rating 5A -40°C to +105°C
- Gold flash plating on contacts



LTW

Type	Pin	Cat.	Qty 1+	Qty 10+
Socket Solder	25 Pin	PS1220	\$16.90	\$14.90

D Backshells Plastic

Screws supplied.



Metal

Quality heavy duty metal backshells.

- Ideal where RF screening is required
- Rear entry



ABS Flameproof D Backshells

Top quality grey back shells with two cable entries.

- Rear or side entry
 Simply push out the tab required
 Supplied with 2 long finger screws, cable clamp screws and hood fixing screws
- A quality range of backshells



Туре	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic D Backshells	9 Pin	PM0808	\$2.90	\$2.30	\$2.10
Plastic D Backshells	15 Pin	PM0828	\$2.90	\$2.60	\$2.30
Plastic D Backshells	25 Pin	PM0848	\$3.90	\$3.10	\$2.70
Plastic D Backshells	37 Pin	PM0868	\$4.90	\$4.10	\$3.70
Metal D Backshells	9 Pin	PM0812	\$4.90	\$4.10	\$3.70
Metal D Backshells	15 Pin	PM0833	\$5.90	\$5.20	\$4.70
Metal D Backshells	25 Pin	PM0847	\$8.90	\$7.90	\$6.90
ABS D Backshells	9 Pin	PM0810	\$3.90	\$3.10	\$2.70
ABS D Backshells	15 Pin	PM0830	\$3.90	\$3.40	\$3.00
ABS D Backshells	25 Pin	PM0850	\$4.90	\$4.10	\$3.70

D Hardware **Sub Hex Nut Extenders**

Pkt of 8 pairs (16 pcs) 6mm hex nut extenders for D connectors.

- Double female screw adaptor
- Pack of 8 pairs

Pkt of 4 pairs (8 pcs) of universal thumb screws for D backshells.

PM0857

• Total length 44mm

- Pack of 4 pairs



Thumb Screws for D Backshells

PM0859

Locking Nuts for D Connectors

Packets of 5 pairs (10 pcs.) of D locking nuts.

- and washers • 6mm length
- Pack of 5
- pairs



Jack Screw to Suit D-Sub

• 13mm length



PM0852			PM0854		
Туре	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
Hex Nut Extenders	8	PM0857	\$5.90	\$5.20	\$4.70
Thumb Screws	4	PM0859	\$5.90	\$5.20	\$4.70
Jack Screw	EA	PM0854	\$0.90	\$0.80	\$0.70
Jack Screw Locking	5	PM0852	\$5.90	\$5.20	\$4.70

Locking Nut Set for D Connectors

Suits D connectors.

• Length 13mm



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Hex Nut Extenders	PM0855	\$3.90	\$3.10	\$2.70

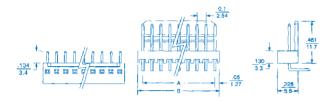
HEADER CONNECTORS

0.1" (2.54mm) Locking & Polarising Header Connectors

A range of connectors for mating cables to PCBs. The connectors are polarised and locking for accurate and secure connections from 2 way to 10 way. The male PCB headers are available in both right angle and vertical orientations. Socket contacts are formed from tin plated brass that can be soldered or crimped.

- 2.54mm pin spacing
- 0.9mm PCB drill hole

Suitable crimping tool for 0.1" header sockets is our Cat. TH1834.



Technical information	All models
Voltage	250V
Current: Brass Crimp/ Tin plated	2.5A max. (solderable)
Contact Resistance	$20m\Omega$ max
Dielectric Withstanding Voltage	1500VAC
Insulation Resistance	50ΜΩ
Contact Insertion Force	681g
Contact Retention to Housing	3.63kg
Mating Force	199g max
Normal Force	200g min
Housing	UL 94v-0 White nylon
Temperature	0 to +75°C

0.1" HEADER SOCKETS, LOCKING & POLARISED

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+	
2	HM3402	\$0.75	\$0.67	\$0.60	
3	HM3403	\$0.80	\$0.72	\$0.64	
4	HM3404	\$1.00	\$0.90	\$0.80	
6	HM3406	\$1.10	\$0.95	\$0.85	SHARE /
8	HM3408	\$1.40	\$1.25	\$1.10	A REAL PROPERTY.
10	HM3410	\$1.65	\$1.45	\$1.30	HM3410
					- IIIVIOTIO

0.1" PIN PCB PLUG (STRAIGHT ENTRY, LOCKING & POLARISED)

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+	
2	HM3412	\$0.35	\$0.31	\$0.28	
3	HM3413	\$0.47	\$0.42	\$0.38	Control of the last of the las
4	HM3414	\$0.55	\$0.49	\$0.44	PHARLES
6	HM3416	\$0.85	\$0.76	\$0.68	CHALL DINKS
8	HM3418	\$1.10	\$0.95	\$0.85	1111111
10	HM3420	\$1.35	\$1.20	\$1.05	HM3420
					THINIOTZU

0.1" PIN PCB PLUG (RIGHT ANGLE ENTRY, LOCKING & POLARISED)

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3422	\$0.34	\$0.31	\$0.27
3	HM3423	\$0.47	\$0.42	\$0.38
4	HM3424	\$0.55	\$0.49	\$0.44
6	HM3426	\$0.85	\$0.76	\$0.68
8	HM3428	\$1.10	\$0.95	\$0.85
10	HM3430	\$1.35	\$1.20	\$1.05



0.156" (4mm) Header Sockets, **Locking & Polarised**

(Includes crimp Pins)

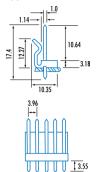
Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3432	\$1.05	\$0.90	\$0.80
3	HM3433	\$1.15	\$1.00	\$0.90
4	HM3434	\$1.35	\$1.20	\$1.05
6	HM3436	\$1.70	\$1.50	\$1.35
8	HM3438	\$1.80	\$1.60	\$1.40
10	HM3440	\$1.90	\$1.70	\$1.50



0.156" (4mm) Locking & **Polarising Header Connectors**

The contacts are rated at 250V @ 7A AC/DC which makes them an ideal power connector to a PCB. They are end to end stackable and commonly seen as the output connector on Switchmode power supplies.

Technical information	All models
Voltage	250V
Current	7.0A
Contact Resistance	20mΩ max
Dielectric Withstanding Voltage	1500V
Insulation Resistance	500kΩ min
Contact Insertion Force	0.681kg
Contact Retention to Housing	3.63kg
Wire Pull-Out force	2.85kg
Mating Force	0.199kg
Unmating Force	150g
Durability	25 cycles
Housing	Nylon UL 94V-2
Temperature	-40°C to 105°C
•	



0.156" (4mm) Locking & Polarised, Straight Entry Pin PCB Plug

(To match previous headers)

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3442	\$0.50	\$0.45	\$0.40
3	HM3443	\$0.65	\$0.58	\$0.52
4	HM3444	\$0.75	\$0.67	\$0.60
6	HM3446	\$0.95	\$0.85	\$0.76
8	HM3448	\$1.10	\$0.95	\$0.85
10	HM3450	\$1.35	\$1.20	\$1.05



DISK DRIVE CONNECTORS

Disk Drive Power Connector - Plug

Plug for wiring power to any standard drive. Has crimp pins.





Disk Drive Power Socket

Socket for wiring power cables for use on any standard drive. Has



Disk Drive PCB Power Plug

Power Plug to PC drives.



Disk Drive IDC Power Socket

• Insulation displacement type



Туре	Cat.	Qty 1+	Qty 10+	Qty 50+
Power Plug	PP0743	\$2.50	\$2.00	\$1.80
PCB Power Plug	PP0744	\$1.90	\$1.50	\$1.30
Power Socket	PS0742	\$3.90	\$3.10	\$2.70
IDC Power Socket	PS0740	\$4.90	\$4.10	\$3.70

SOLDER LUGS & TAGSTRIPS

Solder Lugs

Plain solder lugs for terminating wires onto bolts or under screws.

- Length: 17.6mm
- ID#1: 4.3mm
- ID#2: 2.0mm
- Tin plated

Р

TUA rated					
Pack	Cat.	Qty 1+	Qty 4+	Qty 10+	
50	HP1350	\$6.90	\$6.20	\$5.50	

Tagstrips

• Tin plated lugs Staked to phenolic



2.0mm

Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM3302	\$1.10	\$0.95	\$0.85
3 Way	HM3303	\$1.35	\$1.20	\$1.05
4 Way	HM3304	\$1.55	\$1.35	\$1.20
5 Way	HM3305	\$1.85	\$1.65	\$1.45
8 Way	HM3308	\$2.20	\$1.95	\$1.75

IDC DATA

SOLDER LUGS & TAGSTRIPS CONTINUED

Tagboard

2 tagboards per pack with 8 tin plated lugs per side.

• Dimensions: 80(L) x 32(W)mm (Including lugs)



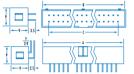
Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3320	\$5.20	\$4.65	\$4.15

IDC PLUGS, SOCKETS & PINS

IDC Headers

All headers have gold plated pins.

Vertical





Pins	Α	В	С	Cat.	Qty 1+	Qty 4+	Qty 10+
10	20	18	10	PP1100	\$1.00	\$0.90	\$0.80
16	28	26	18	PP1106	\$1.30	\$1.15	\$1.00
26	41	38.5	30.5	PP1110	\$1.70	\$1.50	\$1.35
34	51	49.5	41	PP1112	\$2.00	\$1.80	\$1.60
40	58.5	56	48	PP1114	\$2.20	\$1.95	\$1.75

Right Angle

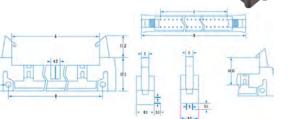


Pins	Α	В	С	Cat.	Qty 1+	Qty 4+	Qty 10+
10	20	18	10	PP1118	\$1.10	\$0.95	\$0.85
16	28	26	18	PP1122	\$1.40	\$1.25	\$1.10
26	41	38.5	30.5	PP1126	\$1.80	\$1.60	\$1.40
34	51	49.5	41	PP1128	\$2.10	\$1.85	\$1.65
50	71	69	61	PP1132	\$4.00	\$3.60	\$3.20

IDC Locking Headers

All headers have gold plated pins.

Vertical



Pins	Α	В	С	D	Cat.	Qty 1+	Qty 4+	Qty 10+
10	32	10	22	18	PP1134	\$1.35	\$1.20	\$1.05
16	39.5	18	29.5	25.5	PP1138	\$1.70	\$1.50	\$1.35
20	45	23	34.5	31	PP1140	\$2.00	\$1.80	\$1.60
26	52	30.5	42	38	PP1142	\$2.90	\$2.30	\$2.10
50	83	61	73	69	PP1148	\$4.50	\$3.90	\$3.60

Right Angle



Pins	Α	В	С	D	Cat.	Qty 1+	Qty 4+	Qty 10+
10	32	10	22	18	PP1150	\$1.90	\$1.50	\$1.30
16	39.5	18	29.5	25.5	PP1154	\$2.50	\$1.80	\$1.60

IDC Line Sockets

- Insulation displacement connection
- Suits standard pitch ribbon cable
- 3A rated



Pins	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
10	3A	PS0984	\$2.00	\$1.80	\$1.60
16	3A	PS0985	\$2.20	\$1.95	\$1.75
20	3A	PS0986	\$2.40	\$2.15	\$1.90
26	3A	PS0987	\$2.80	\$2.50	\$2.20
34	3A	PS0988	\$3.30	\$2.95	\$2.60
40	3A	PS0989	\$3.70	\$3.30	\$2.95
50	3A	PS0990	\$4.30	\$3.85	\$3.40

Dual In-Line Jumpers

- 40 way (2 x 20)
- Snap apart
- 3A rated

\$ 0660 150 1	MANAMANANA MANAMANANA MANAMANANA MANAMANA
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Pins	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
40	3A	HM3250	\$1.75	\$1.55	\$1.40

Header Terminal Strips 28 & 40 Pin

VERTICAL LAUNCHER - 0.1"/ 2.54mm Pitch For PCBs and PCB mass terminals. Snap apart if you need a small length

 3A rated 						
Pins	Current	Cat.	Qty 1+	Qty 4+	Qty 10+	
28	3A	HM3211	\$1.10	\$0.95	\$0.85	
40	3A	HM3212	\$1.30	\$1.15	\$1.00	

40 Pin Female Header Strip

Just like the headers on the Duinotech main boards & a great match for the HM3212 40 pin male header strip. Trimming may be needed to use shorter lengths.

• 3A rated

PP1138

Pins	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
40	3A	HM3230	\$2.90	\$2.60	\$2.30

2 Way Crimp Plug - 2.54mm - Pkt 10

2 way plug commonly used on cordless phone batteries and RC toy Li-Po batteries.

- Ratings: Current 3A / Voltage 250V AC/DC
- Pitch: 2.54mm
- Temperature Rating: -25°C to +85°C
- Suitable wire size: 30-22AWG

(0.25mm to 0.4mm)

Туре	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+	
Crimn Plugs	10	PT///53	\$3.30	\$2.95	\$2.60	

Jumper Shunts

- 2.54mm spacing Pack of 10
- 3A rated



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HM3240	\$2.20	\$1.95	\$1.75

PCB Pins & Sockets

1.0mm pins and sockets for easy termination of wire on PCB boards.

- Gold flashed
- 5A rated









Туре	PACK	Cat.	Qty 1+	Qty 4+	Qty 10+
Pins	50	HP1250	\$6.90	\$6.20	\$5.50
Sockets	25	HP1260	\$6.90	\$6.20	\$5.50

HP1250

\$1.35

TERMINAL BLOCKS & CONNECTORS

WAGO Push Wire Connectors

WAGO 273 Series PUSH WIRE® connector for use in junction boxes suitable for solid conductors. This reliable connector with PUSH WIRE* technology has proven itself as an immediate solution for use with cross-sections up to 4mm². The transparent housing enables the installer to see at a glance whether all the conductors have be fully inserted & properly connected.

Cat

HM3231

HM3233

HM3232

Qty 1+

\$1.10

\$2.20

\$1.55



een	HM3232	WOMEN COANCIONS
Q.	ty 4+	Qty 10+
\$0).95	\$0.85
\$ 1	95	\$1.75

Orange **WAGO Splice Terminal Blocks**

Colour

Yellow

Red

Connect different types of conductors and bridge large differences in cross section with ease! In practical use, this connector can be used for intercom wiring, or to hook-up of an electric stove - fast. 10A rated.



\$1.20

-		
	4 5	
	_	

SIZE

2 Way 24A

3 Way 41A

4 Way 24A

Туре	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	10A	HM3234	\$1.90	\$1.70	\$1.50
3 Way	10A	HM3235	\$2.20	\$1.95	\$1.75

Carrier for Splice Terminal Blocks

An orange mounting carrier suitable for HM3234 (2 wire) & HM3235 (3 wire) compact splicing connectors





Cat.	Qty 1+	Qty 4+	Qty 10+
HM3236	\$3.40	\$3.05	\$2.70

"Jow" Cable Clamp Connectors

Simply insert your wire into the clamp opening and snap it shut using your hands or small pliers depending on wire gauge to make the connection. The precision-sharpened connector blades borrows the IDC configuration that cut through the wires create a connection.

Available in two shapes - "I" type and "T" type. "I" type are used for end to end connections whereas the "T" type for parallel connections. Ideal for applications such as: low voltage LEDs, residential, automotive communication and broadcasting. automotive, communication and broadcasting.

- Avoid stripping, twisting or crimping cables together eliminates need to tape cables
 • Creates an IP33 connection
- Electrically Safety approved
- Handles up to 600VAC
- RoHS compliant

Туре

In-line

In-line

Parallel

Parallel

I Type

I Type

TType

TType

	_	
Specifications	PT4640	PT4641
Suitable For Cable Between	27-20 (AWG) Cross section (mm2): 0.2-0.5	19-17 (AWG) Cross section (mm2): 0.75
Max Current (240VAC)	3A	10A
Connection Loss (Ohm)	0.0018	0.0010
Dimensions/Weight	25(L) x 5.5(W)x 5.5(H)mm/0.8g	30(L) x 6(W) x 6(H)mm/1g
Specifications	PT4651	PT4653
Suitable For Cable Between	19-17 (AWG), Cross section (mm2): 0.75	3-12 (AWG), Cross section (mm2): 2.5
Max Current (240VAC)	10A	20A
Connection Loss (Ohm)	0.0010	0.0001
Dimensions/Weight	30(L) x 6(W) x 6(H)mm/1.6g	37(L) x 7.7(W) x 7.7(H)mm/3.3g

Cat.

PT4640

PT4641

PT4651

PT4653

Qty 1+

\$9.90

\$9.90

\$9.90

\$9.90

Qty 4+

\$8.90

\$8.90

\$8.90

\$8.90

Qty 10+

\$7.90

\$7.90

\$7.90

\$7.90

NYLON TERMINAL STRIPS

Pack

6

4

Current

10A

10A

20A

We have a large range of soft nylon terminal strips with improved quality. See next page.

Ceramic Terminal Blocks

Glazed porcelain terminal blocks are ideal for high temperature situations, such as in lighting Ask us for competitive bulk prices.







	HM3182 HM3183 HM3185 29(L) x22(D)x17(H)mm 30(L) x18(D)x16(H)mm 52(L) x29(D)x22(H)mm				(H)mm	
Туре	Current	Voltage	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Wire Medium	10A	250VAC	HM3182	\$1.45	\$1.30	\$1.15
3 Wire Small	5A	380VAC	HM3183	\$2.10	\$1.85	\$1.65
3 Wire Large	30A	250VAC	HM3185	\$2.50	\$2.25	\$2.00

HEADER/TERMINAL BLOCKS - PCB MOUNT

PCB Spring Terminal Blocks

These PCB terminal blocks retain the wire securely by a spring type clamp. The wire is held very securely but can be quickly released by depressing a release lever. The wire can be inserted/released indefinitely with virtually no deterioration of the contact/spring assembly. Both 2 & 3 poles are available and the housing of each is dove tailed to stack together and make any number of poles.

- Pitch: 5.0mm
- Housing material: PA66
- Contact/spring assembly: Stainless Steel
 Will accept wires from 22-14AWG

Specifications	вотн
Current Rating	12.0A @ 300VAC
Temperature Rating	-40°C to +105°C
Power Rating	5kV rated / 250VAC Cat III
Dimensions	2-Way: 10(L) x 13(W) x 15(H)mm 3-Way: 15(L) x 13(W) x 15(H)mm



The second second	TIIVIJI40
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	l
	HM3142

Туре	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	12A	HM3140	\$1.80	\$1.60	\$1.40
3 Way	12A	HM3142	\$2.20	\$1.95	\$1.75

PCB Mount Screw Terminals - 5mm

Ideal for those situations where wires leave a PCB. Just solder the terminal strip to the PCB and connect wires. 2 way (HM3172) and 3 way (HM3173) are interlocking, so you can make up whatever size you require using these - see 6 way pictured.





- 8A rated
- Wire protected by compression plate
- Join together to make 6 way





Туре	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	8A	HM3172	\$1.55	\$1.35	\$1.20
3 Way	8A	HM3173	\$2.00	\$1.80	\$1.60

Weidmuller PCB Mount Screw Terminals - 5.08mm

These are 5.08mm spacing, come in 2 & 3 way, are interlocking & orange in colour.

10A rated







Weidmüller 35

Туре	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	10A	HM3130	\$1.55	\$1.35	\$1.20
3 Way	10A	HM3132	\$2.00	\$1.80	\$1.60

LED Strip Connectors

Handy 2 pin joiners and power leads to make installing your LED 💆 strips neater and easier. Joiners available in straight, elbow & T-shape.



Туре	Cat.	Qty 1+	Qty 5+	Qty 10+
2 Pin Straight Joiner (4 Pack)	ZD0644	\$5.60	\$5.00	\$4.40
2 Pin Joiner Elbow (2 Pack)	ZD0646	\$4.50	\$4.05	\$3.60
2 Pin Joiner T-Shape	ZD0648	\$5.60	\$5.00	\$4.45
2 Pin to 2.1mm DC Socket	ZD0640	\$7.90	\$7.10	\$6.30
2 Pin to Bare Leads	ZD0642	\$3.30	\$2.90	\$2.60

A214 Freecall order hotline: 0800 452 922 jaycar.co.nz

TERMINAL BLOCKS

HEADERS / TERMINAL BLOCKS - PCB MOUNT CONTINUED

5.08mm High Quality Plugable Terminal Blocks/Headers

Available in both horizontal-plug and vertical-plug versions, these quality headers simply solder to a PC board and are for the Plugable Terminal Blocks (see below).

- Made from Polyamide66 plastic (UL94V-0)
- 1.0mm tin-plated brass solder pins
- Excellent current and insulation characteristics







Specifications	ALL MODELS		
Current Rating	12.0A @ 300VAC	12	
Insulation Withstands Volt	2000VAC min	FIT	西西
Insulation Resistance	>5000MΩ 500VDC	7.8	,
Pcb Hole Diameter	1.5mm	U	3.9
Pitch	5.08mm (0.200 inch)		•

The plug version to suit the above headers - these terminal blocks are easily plugged in, and feature nickel-plated brass cage clamps, tin-plated phosphor bronze contacts, M3 nickel-plated steel screws.

Horizontal PC Mount (Pic A)

Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3102	\$1.35	\$1.20	\$1.05
3	HM3103	\$2.10	\$1.85	\$1.65
4	HM3104	\$2.50	\$2.25	\$2.00
6	HM3106	\$3.20	\$2.85	\$2.55
8	HM3108	\$4.10	\$3.65	\$3.25

Vertical PM Mount Plugable Headers (Pic B)

Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3112	\$1.35	\$1.20	\$1.05
3	HM3113	\$2.10	\$1.85	\$1.65
4	HM3114	\$2.50	\$2.25	\$2.00
6	HM3116	\$3.20	\$2.85	\$2.55
8	HM3118	\$4.10	\$3.65	\$3.25

Screw Terminal Sockets (Pic C)

Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3122	\$3.10	\$2.75	\$2.45
3	HM3123	\$4.40	\$3.95	\$3.50
4	HM3124	\$5.90	\$5.20	\$4.70
6	HM3126	\$8.90	\$7.90	\$6.90
8	HM3128	\$9.90	\$8.90	\$7.90

TERMINAL BARRIERS

Surface Mount Screw Terminal Strips

These units feature the ability to terminate 2 or 3 sets of wires securely with the option of changing or adding connections. In classic barrier strip fashion there is a comprehensive fence between each terminal. Each sturdy block has 2×4 mm

HM3169

\$5.20

mounting holes at each end and an insulating body with high impact plastic. Two models available.

• 25A rated



\$4.65

Qtv 10+

\$3.50

\$4.15

Туре	Current	Cat.	Qty 1+	Qty 4+
2 Way	25A	HM3167	\$4.40	\$3.95

Plug/Socket Terminal Strip

25A

Semi permanent connection up to 12 poles.

- Reliable screw down termination
- 10A per pole

3 Way

- Supplied as a matching pair
- A great multiple auto / marine connector for low voltage

• Not for 240V

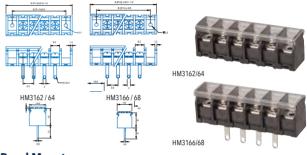


Terminal Barriers - Transparent Covers

Specifications	ALL MODELS
Pitch	9.5mm
Barrier Material	Thermoplastic (UL-94V-0), Black
Terminals	Tin Plated Brass (Standard)
Screws	Nickel Plated Steel
Wire AWG	12-22 STR
Rating	25 Amp, 300VAC
Cover Material	PC
Insulation Withstands Voltage	AC 2000V/Min
Insulation Resistance	500Mohm or more at 500V

PC Mount

Туре	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	25A	HM3162	\$5.80	\$5.20	\$4.60
6 Way	25A	HM3164	\$7.90	\$7.10	\$6.30



Panel Mount

Туре	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	HM3166	\$5.80	\$5.20	\$4.60
6 Way	HM3168	\$7.90	\$7.10	\$6.30

Terminal Strips - Improved Quality

Still 12 way and capable of being divided with a sharp knife, however, the screw retention is much sturdier. Each terminal block has a mounting hole on a fixed pitch.

- Material: Polyamide 66 (nylon) / UL94V-2 flame retardant
- Temperature:
 -35°C to +110°C
 Voltage: 250-450V
 Colour: Natural

Current	Cable Dia.	Length	Pitch	Cat.	Qty 1+	Qty 4+	Qty 10+
6A	3.3mm	114.5mm	10mm	HM3194	\$2.50	\$2.25	\$2.00
10A	4.2mm	128.8mm	11mm	HM3196	\$2.90	\$2.60	\$2.30
15A	4.5mm	136.8mm	12mm	HM3200	\$3.80	\$3.40	\$3.00
Current	Cable Dia.	Length	Pitch	Cat.	Qty 1+	Qty 4+	Qty 10+
30A	5.6mm	164.5mm	15mm	HM3198	\$4.60	\$4.10	\$3.65
60A	6.6mm	193mm	16.3mm	HM3204	\$6.90	\$6.20	\$5.50

CONTACT & QUICK SPLICE CONNECTORS

Contact Connectors

Simply wrap around the existing wire and new wire & squeeze. Connector cuts through insulation and makes contact without damaging the conductor.

Fully insulated once on.

- 5A rated
- 16G max
- 12-24VDC 10A max





Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP1206	\$2.90	\$2.60	\$2.30

Quick Splice Connectors

Simply insert your wires and squeeze it closed to connect and crimp. Quick. easy, and secure. Nylon insulation rated to 105°C







 5A rated 	
ID	Tvr

				-		
ID	Туре	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
Α	22-18AWG	6	PT4537	\$3.50	\$3.00	\$2.70
В	16-14AWG	6	PT4637	\$3.50	\$3.00	\$2.70
С	12-10AWG	6	PT4737	\$3.40	\$3.05	\$2.70

STANDARD QUICK CONNECTORS

Pkt

8

8

8

8

8

Cat.

PT4500

PT4600

PT4700

PT4502

PT4602

PT4702

Size

Nylon Injection Moulding

Unlike the majority of quick crimp connectors available on the market, our range of standard quick connectors are made with a nylon injection moulded insulation as opposed to the heat shrunk vinyl insulation most others feature. The injection-moulded nylon insulation is temperature rated to 105°C, and features a moulded

funnel taper in the insulation for easy cable entry. MOST BULLET, SPADE LUG & FORK CONNECTORS CAN BE SAFELY RATED FOR 10 AMPS.

	RED	Cable Entry Size: 4.3mm Wire Size: 0.75 - 1.0mm ²
	BLUE	Cable Entry Size: 4.5mm Wire Size: 1.5 - 2.5mm ²
	YELLOW	Cable Entry Size: 6.6mm

Large Spade Quick Connectors

- Spade socket
- 9.5mm

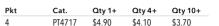
pack of 20

• Pack of 4 Suits 60A horn relay SY4074

Ferrule Crimp Connectors

Quick Connect Pack

Total 160 pieces.



Bullets

ID Type

Α Male

В Male

С



\$4.40

\$4.50

\$4.60

\$4.40

\$4.50

\$4.60

\$3.95

\$3.70

\$4.10

\$3.95

\$3.70

\$4.10



\$3.50

\$3.30

\$3.65

\$3.50

\$3.30

50

100

100

50

100



Cat

PT4501

PT4601

PT4701

PT4503

PT4603



Otv 1+

\$13.90

\$20.90

\$22.90

\$13.90

\$20.90

\$22.90

\$12.90

\$18.90

\$20.90

\$12.90

\$18.90

\$20.90



\$10.90

\$16.90

\$17.90

\$10.90

\$16.90

\$17.90



			_		
ID	SIZE	Cat.	Qty 1+	Qty 4+	Qty 10+
Α	0.75mm ²	PT4433	\$3.90	\$3.30	\$2.90
В	1.50mm ²	PT4533	\$3.90	\$3.30	\$2.90
С	2.5mm ²	PT4633	\$3.90	\$3.30	\$2.90

Spades

Male

Female

Female Female













						_		-	-	_	-	
ID	Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
Α	Male	4.8	8	PT4518	\$3.50	\$2.90	\$2.60	-	-	\$18.90	\$16.70	\$14.70
В	Male	6.3	8	PT4609	\$3.50	\$2.90	\$2.60	100	PT4610	\$18.90	\$16.70	\$14.70
С	Female	4.8	8	PT4722	\$4.50	\$3.60	\$3.30	100	PT4721	\$24.90	\$22.50	\$19.70
D	Female	4.8	8	PT4522	\$3.50	\$2.90	\$2.60	100	PT4524	\$18.90	\$16.90	\$14.90
Ε	Female	4.8	8	PT4622	\$3.50	\$2.90	\$2.60	100	PT4621	\$18.90	\$16.70	\$14.70
F	Male	6.4	8	PT4709	\$4.50	\$3.60	\$3.30	100	PT4710	\$24.90	\$22.50	\$19.70

Spades













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ID	Туре	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
Α	Male	6.4	8	PT4509	\$3.50	\$2.90	\$2.60	100	PT4512	\$16.90	\$14.90	\$13.30
В	Female	6.4	8	PT4607	\$3.50	\$2.90	\$2.60	100	PT4608	\$16.90	\$14.90	\$13.90
С	Female	6.8	8	PT4707	\$4.00	\$3.60	\$3.20	100	PT4708	\$20.90	\$18.90	\$16.90
D	Female	6.8	8	PT4507	\$3.50	\$2.90	\$2.60	100	PT4513	\$16.90	\$14.90	\$13.30
Ε	Female	6.4	8	PT4625	\$3.20	\$2.85	\$2.55	50	PT4626	\$11.90	\$10.70	\$9.50
F	Female	6.8	8	PT4725	\$4.00	\$3.60	\$3.20	50	PT4726	\$13.90	\$12.90	\$10.90
G	Female	6.8	8	PT4525	\$3.50	\$2.90	\$2.60	50	PT4526	\$9.90	\$8.90	\$7.90
Н	Piggyback	6.4	8	PT4510	\$3.50	\$2.90	\$2.60	100	PT4511	\$18.90	\$16.90	\$14.90

ncludes the following:

- 10 x 6.4mm female crimp spade lugs wire dia
- 10 x 6.4mm female crimp spade lugs wire dia 3.5mm
- 10 x Close end wire crimpers dia 2.6mm 10 x Close end wire crimpers dia 3.8mm 5 x Contact wire connectors

- 10 x Female bullet connectors insulated
- 10 x Male bullet connectors insulated
- 5 x 3 way spade lug connectors 6.8mm
 5 x spade piggyback connectors 6.8mm
 10 x 4.9mm female spade lugs
- 10 x 8.4mm hole dia ring terminals
- 10 x 5.7mm hole dia ring terminals
 10 x 5.3mm hole dia spade terminals
 10 x 4.3mm hole dia spade terminals
- 5 x 3.5mm dia butt connectors
- 5 x 2.3mm dia butt connectors
- 5 x 1.8mm dia butt connectors
- 10 x 3.3mm spade connectors (tweeter connectors)
- Beware of others with less than 160 pieces

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
160 Pieces	PT4530	\$27.90	\$24.70	\$21.90

Eye, Fork, Butt & Blades











ID	Type	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
Α	Eye	8	PT4514	\$3.50	\$2.90	\$2.60	100	PT4515	\$18.90	\$16.90	\$14.90
В	Eye	8	PT4614	\$3.50	\$2.90	\$2.60	100	PT4615	\$18.90	\$16.70	\$14.70
С	Eye	8	PT4714	\$4.00	\$3.60	\$3.20	100	PT4715	\$22.90	\$20.90	\$17.90
D	Fork	8	PT4523	\$3.50	\$2.90	\$2.60	100	PT4529	\$18.90	\$16.90	\$14.90
Ε	Fork	8	PT4623	\$3.50	\$2.90	\$2.60	100	PT4624	\$18.90	\$16.70	\$14.70
F	Fork	8	PT4723	\$4.00	\$3.60	\$3.20	100	PT4724	\$22.90	\$20.90	\$17.90
G	Butt	8	PT4527	\$3.50	\$2.90	\$2.60	100	PT4528	\$18.90	\$16.90	\$14.90
Н	Butt	8	PT4627	\$3.50	\$2.90	\$2.60	100	PT4628	\$19.90	\$17.90	\$15.90
I	Butt	8	PT4727	\$4.00	\$3.60	\$3.20	100	PT4728	\$27.90	\$24.90	\$21.90
J	Blade	8	PT4516	\$3.50	\$2.90	\$2.60	100	PT4517	\$18.90	\$16.90	\$14.90
K	Eye	8	PT4618	\$3.50	\$2.90	\$2.60	8	PT4718	\$4.00	\$3.60	\$3.20





Freecall order hotline: 0800 452 922

CRIMP LUG & TERMINALS

SELF SEALING QUICK CONNECTORS

Spades, Eyes, Forks, Butt & Bullets

The unique heat sensitive sealing gel in these guick connectors will automatically flood the crimp joint with sealant as the heat-shrink sleeve is heated. The resulting crimp connection is water and corrosion resistant and has good strain relief properties. 11 styles to choose from.



ID	Туре	Size	Current (DC)	Cat.	Qty 1+	Qty 4+	Qty 10+
Α	Male	4.8mm	5A	PT4818	\$7.90	\$7.20	\$6.50
В	Female	4.8mm	5A	PT4822	\$7.90	\$7.20	\$6.50
C	Male	6.4mm	10A	PT4809	\$7.90	\$7.20	\$6.50
D	Female	6.4mm	10A	PT4807	\$7.90	\$7.20	\$6.50
Ε	Female Ins.	6.4mm	10A	PT4825	\$8.90	\$7.90	\$6.90
F	Piggyback	6.4mm	10A	PT4810	\$8.90	\$7.90	\$6.90
G	Eye	5.3(ID)/8.0(OD)	5A	PT4814	\$7.90	\$7.20	\$6.50
Н	Fork	3.7(ID)/5.7(OD)	3A	PT4823	\$7.90	\$7.20	\$6.50
Ι	Butt	4.7	5A	PT4827	\$8.90	\$7.90	\$6.90
J	Male	4	5A	PT4800	\$7.90	\$7.20	\$6.50
K	Female	4	5A	PT4802	\$8.90	\$7.90	\$6.90

EYE TERMINALS

Non-Insulated Eye Terminals

A range of non-insulated eye terminals for a variety of electronic or automotive applications.



Α	В	С	D	E	F	G	Н	1	J
ID	Hole	Cable e	ntry	PK	Current (DC)	Cat.	Qty 1+	Qty 4+	Qty 10+
Α	4mm	$2.5 mm^2$		8	20A	PT4930	\$3.40	\$3.05	\$2.70
В	6mm	4mm²		8	30A	PT4932	\$3.40	\$3.05	\$2.70
C	6mm	6mm²		8	35A	PT4934	\$3.70	\$3.30	\$2.95
D	8mm	6mm²		8	35A	PT4935	\$3.80	\$3.40	\$3.00
Ε	8mm	10mm^2		8	40A	PT4936	\$5.80	\$5.20	\$4.60
F	8mm	15.2mm	2	4	45A NEW	PT4933	\$5.80	\$5.20	
G	8mm	$25 mm^2$		4	50A	PT4937	\$5.20	\$4.65	\$4.15
Н	8mm	$35 mm^2$		4	60A	PT4938	\$7.90	\$7.10	\$6.30
1	8mm	$50 mm^2$		2	100A	PT4939	\$5.50	\$4.95	\$4.40
-	10mm	$25 mm^2$		4	50A NEW	PT4941	\$5.90	\$5.30	
J	10mm	$35 mm^2$		2	60A	PT4940	\$5.50	\$4.95	\$4.40
	10mm	$50 mm^2$		2	120A NEW	PT4942	\$5.90	\$5.30	

p.A38 - Crimping Tools

CABLE CONNECTORS

Crimp Wire Connectors

The easy way to connect 2 or 3 wires together. Simply insert into the connector, & squeeze with a pair of pliers. They are filled with sealant to provide moisture resistance. Accepts cable up to 1.08mm OD.





CRIMP CONNECTORS & PACKS

Non-Insulated Spade Connectors

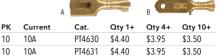
6.3mm

ID Type

Α

Socket

Plua



6.3mm PCB Mount PCB Spade Connectors

Commonly used to connect power to a PCB board. They work perfectly with 6.3mm female spade connectors.

- PCB tag: 6.3mm • Current rating: 30A
- Thickness: 0.81mm

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Туре	Size	PK	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
PCB Mount	6.3mm	8	10A	PT4914	\$3.60	\$3.15	\$2.90

6.3mm Chassis Mount Double Spade

Pack of 8 pieces of 6.3mm chassis mount double spade connectors.

• Chassis Mounting Hole: 4(Dia.)mm



Phone Type Crimp Lugs

Brass Spade width - 3.2mm

• Cable entry 2.5mm



Phone Type Crimp Lugs

A range of non-insulated butt splice terminals similar to our non-insylated eve terminal range but designed to directly join two cable of similar diamater together.



Cable Entry	Cable Size AWG	Pack	Cat.	Qty 1+	Qty 4+
3.32mm	22-16	20	PT4960	\$3.40	\$3.05
4.02mm	16-14	20	PT4961	\$3.40	\$3.05
5.52mm	12-10	10	PT4962	\$4.00	\$3.60
6.20mm	8	4	PT4963	\$4.00	\$3.60
9.00mm	6	4	PT4964	\$4.60	\$4.10
11.3mm	4	2	PT4965	\$4.60	\$4.10
13.3mm	2	2	PT4966	\$5.90	\$5.30
15.0mm	1/0	2	PT4967	\$5.90	\$5.30

Automotive Crimp Tool with 80 Connectors

The tool will cut & strip wire, crimp connectors and also cut a range of metric bolts.

- 8 ea. male & female blue bullets
- 8 ea. male & female blue spades
- 8 x red eve connectors
- 8 ea. male & female red bullets 8 ea. male & female red spades

• 8 x blue	butt Joiners	
Pack		

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Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
80 Pieces	TH1848	\$20.90	\$18.90	\$16.90

300 Piece QC Crimp Connector Pack

Contains 300pcs of only the most commonly-used quick connectors from our range of separately sold QC connectors. The insulation is injection-moulded Nylon rated to 105° C, with a moulded funnel taper in the insulation for easy cable entry. Beware of other QC connector packs that contain cheap vinyl connectors. Pack contains (300pcs in total):

RED - FOR 0.75 - 1.0MM CABLE YELLOW - FOR 4-6MM CABLE • 5 x 5mm/5 x 6mm ring 5 x cable joiner

- 20 x female/20 x male bullet
- 20 x 4mm/20 x 5mm ring
- 20 x 4mm fork/ 25 x female spade
- 25 x male spade/
- 10 x cable joiner

BLUE - FOR 1.5 - 2.5MM CABLE

- 15 x female/20 x male bullet
- 20 x 4mm/10 x 6mm ring
- 25 x female/25 x male spade





Qty 1+ Qty 4+ Qty 10+ 300 Pieces PT4536 \$52.90 \$46.90 \$41.90

GOLD PLATED LARGE-GAUGE TERMINALS

Gold Plated High Current Cable Joiners

If you have ever tried to connect, crimp or solder 8GA or even 4GA cable you will understand how convenient these gold-plated brass connectors are. Each cable termination is via gold grub screws and joiner is supplied with small transparent insulating heatshrink tube.



	Cat.	Qty 1 +	Qty 4+	Qty 10+
Suit 8GA cable	HC4065	\$9.90	\$8.90	\$7.90
Suit 4GA cable	HC4064	\$9.90	\$8.90	\$7.90

Gold Plated Terminals

Supplied in pairs. 1 red and 1 black

8GA QC Gold Connectors - Small Eye



8GA QC Gold Connectors - Large Eye

Suits thinner cable (8GA):

AMP-KING

1 x Red & 1 x Black

Sold as a Pair

	Specifications	PT4562	1	
	Hole Size	8.4mm		
	Cable Hole Dia	4.8mm		
AMP-KING	Size Including Cover	42mm		
Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4562	\$3.80	\$3.40	\$3.00

4GA QC Gold Connectors - Large Eye

Suits Large Cable (4GA)

Specifications	PT4564		
Hole Size	8.4mm	0	
Cable Hole Dia	8mm		
Size Including Cover	50mm		
Metal Thickness	1.5mm		
Cat.	Qty 1+	Qty 4+	Qty 10+
PT4564	\$4.90	\$4.40	\$3.90

BUS BARS

AMP-KING

Sold as a Pair 1 x Red & 1 x Black

8 Way 100A Machined Brass Bus Bar

These are usually used to give an electrically common point for earth wiring but are also useful for low voltage tie points, especially on boats or RV's, Caravans etc., 6 holes accept up to a 4.5mm wire bundle and the outer 2 a 6.0 bundle. The Bus bar has insulated standoffs at each end which can be removed so that the assembly can be screwed directly to a chassis. The standoffs have a conservative insulation rating of 1000V.

• All screws M4.0 Brass bar 9.0 x 6.0

 \bullet Length overall including standoffs: 100mm, without standoffs: 65mm

Cat.	Qty 1+	Qty 4+	Qty 10+
SZ2003	\$8.90	\$7.70	\$6.70

10 Way 150A Insulated Bus Bar

This quality bus bar features a raised insulating base that isolates the bus bar from earthed or other live chassis. It features 2 x 5mm bolted terminals for connecting main power feeds, and 10 screw terminals for connecting lower current feeds of up to 10A each. Total current

capacity is 150A, and is suitable for 12-32V wiring. 2 countersunk screw holes for 5mm metric fasteners

Not suitable for 240V active circuit

• Dimensions:

145(L) x 30(W) x 40(H)mm



2GA QC Gold Connectors - Eye

Suits 2GA cable.



OGA QC Gold Connectors - Eye

Suits thick cable (0GA)

Specifications	PT4567	-	
Hole Size	8.4mm		
Cable Hole Dia	11.8mm		
Size Including Cover	60mm		
Metal Thickness	1.6mm		
Cat.	Qty 1+	Qty 4+	Qty 10+
PT4567	\$7.90	\$7.10	\$6.30
	Hole Size Cable Hole Dia Size Including Cover Metal Thickness Cat.	Hole Size 8.4mm Cable Hole Dia 11.8mm Size Including Cover Metal Thickness 1.6mm Cat. Qty 1+	Hole Size 8.4mm Cable Hole Dia 11.8mm Size Including 60mm Metal Thickness 1.6mm Cat. Qty 1+ Qty 4+

8GA QC Gold Connectors - Forked Spade Terminals

Suits thinner cable (8GA)

				47
	Specifications	PT4566	-	
	Hole Size	3.7mm		
	Cable Hole Dia	4.8mm		
AMP-KING	Size Including Cover	33mm		
Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4566	\$3.80	\$3.40	\$3.00

8GA QC Connectors - Spades

Standard quick connect lugs that fit speaker terminals etc.

• Cable hole diameter - 3.6mm



Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4568	\$3.40	\$3.05	\$2.70

GOLD POWER DISTRIBUTION BLOCKS

100A Gold Power Distribution Block

This block will accept one 4GA wire in, and distribute to four 8GA out.

• Size includes mounting bracket



AMP-KING

SZ2012 for 240V

	Cat.	Qty 1+	Qty 4+	Qty 10+
63(L) x 50(W) x 12(H)mm	HC4020	\$15.90	\$13.70	\$12.30

16 Way 100A Brass Distribution Bar

An ideal way to distribute high current paths. An 8mm stud provides for incoming cable and distribution is via 16 screw terminals with 7mm cable entry holes.

- Solid brass with high quality plastic bridge mounts
- Rated for 100A per circuit
- Up to 300A total circuit capability



AMP-KING

	Cat.	Qty 1+	Qty 4+	Qty 10+
112(L) x 18(W) x 12(H)mm	SZ2004	\$11.90	\$10.70	\$9.50

A218 ∘ jaycar.co.nz

Freecall order hotline: 0800 452 922

ANDERSON® TYPE CONNECTORS

Anderson* 50A High Current Connectors

Used widely in both domestic and industry, you'll find this connector in many 4WD applications, boating, automotive and other industries. Supplied as a moulded 2 pole with contacts.



Specifications		PT4425	PT4427	PT44	20
Contact Ratio	ng	50A			
Contact Wire	Size	8 AWG	12-10 AWG	13.3m	m² (6 AWG)
Voltage Ratio	ng	600V (AC o			
Max Wire Ins	ulation Diameter	11mm		ır new hig	
Contact Retention Force		22kg	conne	ectors on p	age BZ3
Cable AWG	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
8	50A	PT4425	\$11.90	\$10.70	\$9.50
12-10	50A	PT4427	\$11.90	\$10.70	\$9.50
6	50A	PT4420	\$11.90	\$10.70	\$9.50

120/175AMP Versions of above

The ultimate in high current connectors as used in electric forklift trucks, electric welders and high current auto/marine use.



Specifications		PT4422		PT4424		
Contact Ratio	ng	120A		175A		
Contact Wire	Size	33.6mm ² (#2 AWG)	53.5mm ² (#	1/0 AWG)	
Voltage Ratir	ng	600V (AC or DC)		600V (AC or DC)		
Max Wire Ins	Max Wire Insulation Diameter		14.6mm		19mm	
Contact Rete	ntion Force	45.5kg (100lb)		137kg (300lb)		
Cable AWG	Current	Cat.	Qty 1+	Qty 10+	Qty 50+	
2	120A	PT4422	\$24.90	\$22.30	\$19.70	
1/0	175A	PT4424	\$39.90	\$35.90	\$31.90	

p.A256 - Full Range of Anderson* Connectors •

SOLAR PV CONNECTORS

Waterproof Solar Power "PV" Connectors

When matched with our solar power cables WH3122, you can leave your cabling out in the open with the knowledge that you will never have a bad connection or an oxidised power cable.

Suitable crimping tools: TH1834/TH2000

- Pin dimension 4mm
- Tin plated copper contacts Contact resistance <5mΩ
- -40°C to +90°C
- IP67 rated
- Housing material PPO





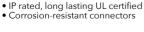
Specifications	вотн					
Rated Voltage	1000VDC	1000VDC				
Rated Current	30A at 70°C. 25A at 85°C					
Contact Resistance	<5 milliohms					
TUV Certification	2 PfG 1161	2 PfG 1161/01.06				
Size	Cat.	Qty 1+	Qty 10+	Qty 50+		
Female Inline	PS5100	\$8.90	\$8.00	\$7.10		
Male Inline	PP5102	\$8.90	\$8.00	\$7.10		

TUV CERTIFIED

MC4 Self Locking Branch Connectors

A MMF and FFM pair of locking branch connectors for solar installations. Allows parallel connection of solar panels.

• 1 MMF and 1 FFM cable connectors





Dimensions	42(W) x 20(H) x 110(D)mm (each)		
	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair	PT4590	\$24.90	\$22.90	\$19.90

CIGARETTE LIGHTER PLUGS & SOCKETS

Cigarette Lighter Plug

Simply plugs into the car cigarette lighter socket to obtain 12VDC from the car battery.



	Cat.	Qty 1+	Qty 10+	Qty 50+
Economy	PP2000	\$2.20	\$1.95	\$1.75

5 Amp Lead with Bare Ends

Lead with a 5 amp fused cigarette lighter plug on one end.

- Cable length: 450mm approx
- Cable thickness: 18AWG



Cigarette Lighter Plug - Fused

As PP2000 but with the added safety benefit of being fused. Supplied with 3A fuse.

Recommended

	Cat.	Qty 1+	Qty 10+	Qty 50+
3A	PP2001	\$5.80	\$5.20	\$4.60

8 Amp Lead with Bare Ends

A lead consisting of an 8 amp fused cigarette lighter plug and 5 metres of thick cable.

• 18 AWG cable

	Cat.	Qty 1+	Qty 3+	Qty 6+
8A	PP1998	\$19.90	\$17.90	\$15.90

CIG. LIGHTER SOCKET WIRING

Auto cigarette lighter wiring rarely allows more than 15A to be taken from this circuit.

Cigarette Lighter Inline Socket

• 5A max



Cat.	Qty 1+	Qty 10+	Qty 50+
PS2003	\$4.90	\$4.10	\$3.70

Cigarette Lighter Chassis Socket

• Install in dash

21mm hole required







Cat.	Qty 1+	Qty 10+	Qty 50+
PS2002	\$7.90	\$7.10	\$6.30

Dash/Panel Mount Cigarette Lighter Socket with Cap, 15A

Provides a cap protected cigarette lighter socket for your boat, car, or truck. Easy to install includes 2 x countersunk screw holes for easy mounting. Rated at 15A with 6.3mm spade connections

• Dimensions: 56(W) x 31(H) x 50(D)mm



Cat.	Qty 1+	Qty 10+	Qty 50+
PS2004	\$11.90	\$10.70	\$9.50

15A Cigarette Socket to 8mm Eye Terminal

A handy lead allowing you to power your 12VDC cigarette lighter plug devices from a range of 12VDC sources. The cigarette lighter socket is attached to 16AWG 400mm long red and black lead with 8mm eve terminals on each end.

• Rated to 15A max



Cat.	Qty 1+	Qty 10+	Qty 50+
PT4451	\$16.90	\$14.90	\$13.90

AUTOMOTIVE CONNECTORS

Waterproof Deutsch Connector Sets

High quality Waterproof 2-way "Deutsch" connectors commonly used in automotive or marine applications. Perfect for connecting up sensors/lights in the engine bay due to their superior corrosion protection and waterproof properties.





WA	RR	Αľ	VTV

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP2150	\$8.90	\$8.00	\$7.10
4 Way	PP2149	\$11.90	\$10.90	\$9.90
6 Way	PP2148	\$13.90	\$12.90	\$10.90

Automotive Waterproof Plug & Socket Sets

Waterproof automotive connectors commonly used on many modern cars for wiring connections within the engine bay and other areas that are exposed to moisture. The interlocking parts are surrounded by a rubber seal, while an individual grommet seals each wire. Each package includes plug, socket, cable grommets and crimp pins.

- Current rating: 20A (max.)
 Pin spacing: 7.5mm
 Assembled Length: 70mm



	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP2110	\$9.90	\$8.90	\$7.90
3 Way	PP2112	\$13.90	\$12.90	\$10.90
4 Way	PP2114	\$20.90	\$18.90	\$16.90
6 Way	PP2116	\$24.90	\$22.30	\$19.70

Automotive Multi-Way Plug / Sockets - 250 Series

Commonly used in automotive applications such as stereo and CB installations, or for replacements in existing wiring. The housings interlock and they come in 2, 3, 4, 6 or 8 way sets. Each comes with plug, socket, and male and female locking spade lugs.



2 way & 6 way shown

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP2062	\$4.40	\$3.95	\$3.50
3 Way	PP2064	\$4.90	\$4.40	\$3.90
4 Way	PP2066	\$5.50	\$4.95	\$4.40
6 Way	PP2068	\$5.90	\$5.30	\$4.70
8 Way	PP2069	\$8.90	\$8.00	\$7.10

2 Pin 32 Volt Plugs & Sockets

For low voltage applications such as caravans etc up to 15 amps

• Frankly, they are a bit clunky, but they are reliable and simple to use





	PS20/3	20/3 PS20/4		PP2075
	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Socket	PS2073	\$24.90	\$22.40	\$19.90
Surface Socket	PS2074	\$24.90	\$22.40	\$19.90
Line Plug	PP2075	\$11.90	\$10.70	\$9.50

Wired Multi Pin Plugs / Sockets

Heavy duty plug and socket with bullet type connectors.

- Pre wired with 18AWG wire
- Extremely handy when cables néed to be periodically unplugged
- Bullet style connectors



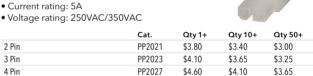
	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP2034	\$4.90	\$4.40	\$3.90
4 Way	PP2030	\$11.90	\$10.90	\$9.90
6 Way	PP2032	\$14.90	\$13.90	\$11.90

Miniature Nylon MOLEX-Type Connectors

Suitable for high current/high density, wire-to-wire or wire-to-board applications. They are suitable for both power and signal connections.

- Fully isolated terminals
- Positive housing locks
- Four point of contact for reliability
- Low engagement force terminals
- Male and female pins supplied
- Wire size: 24-18AWG

6 Pin



\$5.50

\$4.95

\$4.40

PP2025

Multi Pin Plug / Socket

Each set consists of nylon body for male/female, along with male/female socket pins to fill all available poles. Will mate with standard MOLEX-type connectors.

- Wire size: 24-14AWG, 0.2 to 2.0mm
- Current rating: 15A AC/DC max
- Voltage rating: 300VAC/DC



	Cat.	Qty 1+	Qty 10+	Qty 50+	
2 Pole	PP2020	\$3.80	\$3.40	\$3.00	
3 Pole	PP2022	\$4.10	\$3.65	\$3.25	
6 Pole	PP2024	\$5.50	\$4.95	\$4.40	
12 Pole	PP2026	\$8.90	\$8.00	\$7.10	

Pin Extraction Tool

Take the frustration out of removing Molex connector pins with these time save tools. Simply slide the tool over the connector and push the plunger to effortlessly remove the pin. Both male and female pin extractors available.



\$29.90

TH1732

Automatic Accounts

Female Extractor

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

\$26.90

POWER CONNECTORS

DC PLUGS, SOCKETS & ADAPTORS

Line Plugs Line - Female Plastic



		,		4	
PP0509	PP0512	PI	P0514	PP	0515
9.5mm Shaft Length	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7(ID) x 2.5(OD)mm	1.0A	PP0503	\$2.60	\$2.30	\$2.05
1.0(ID) x 3.8(OD)mm	1.5A	PP0504	\$2.60	\$2.30	\$2.05
1.3(ID) x 3.5(OD)mm	1.8A	PP0506	\$2.60	\$2.30	\$2.05
1.6(ID) x 5.2(OD)mm	2.0A	PP0508	\$2.60	\$2.30	\$2.05
1.7(ID) x 4.0(OD)mm	2.5A	PP0507	\$2.60	\$2.30	\$2.05
1.7(ID) x 4.75(OD)mm	2.5A	PP0505	\$2.60	\$2.30	\$2.05
2.1(ID) x 5.5(OD)mm	3.0A	PP0510	\$2.60	\$2.30	\$2.05
10mm Shaft Length		Cat.	Qty 1+	Qty 10+	Qty 50+
2.5(ID) x 5.5(OD)mm	5.0A	PP0511	\$2.60	\$2.30	\$2.05
3.1(ID) x 6.3(OD)mm	6.0A	PP0513	\$2.60	\$2.30	\$2.05
14mm Shaft Length		Cat.	Qty 1+	Qty 10+	Qty 50+
2.1(ID) x 5.5(OD)mm	3.0A	PP0509	\$2.60	\$2.30	\$2.05
2.5(ID) x 5.5(OD)mm	5.0A	PP0512	\$2.60	\$2.30	\$2.05
Right Angle 9.5mm Sha	Cat.	Qty 1+	Qty 10+	Qty 50+	
2.1(ID) x 5.5(OD)mm	3.1A	PP0514	\$3.40	\$3.05	\$2.70
Right Angle 14mm Sha	ft Length	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5(ID) x 5.5(OD)mm	5.0A	PP0515	\$3.40	\$3.05	\$2.70

Line - Female Metal Body

• 9.5mm shaft



2.1mm DC Connectors

• 3.0A rated



			1A3711		PA3713
Туре	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug - Screw Terminals	3A	PA3711	\$6.90	\$6.20	\$5.50
Socket - Screw Terminals	3A	PA3713	\$6.90	\$6.20	\$5.50

Illuminated Polarity Sensing DC Connector

These detect and indicate the polarity of your power connections with integrated LEDs. The LED lights up blue for centre positive, red for centre negative or purple for AC voltage. They also shine brighter as voltage increases.

- 5-30 VAC/VDC range 3A rated
- 1 metre lead length

Туре	Current (DC)	Cat.	Qty 1+	Qty 2+	Qty 4+
Inline Plug	3A	WQ7288	\$8.90	\$8.00	\$7.55

Waterproof 2.1mm DC Connectors with Pigtail Leads

The same connector set fitted to our waterproof LED strip lights with

standard 2.1(ID) x 5.5(OD)mm

DC connection with an IP67 rated coupling.

Supplied pre-fitted to a 100mm pigtail lead, allowing you to make up your own lead sets.

- Cables are 20AWG
- 3A max at 12VDC



Туре	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
Waterproof	3A	PS0785	\$10.90	\$9.70	\$8.90

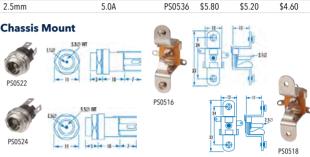
Line Sockets Line - Male

Plastic body



Туре	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	3.0A	PS0526	\$4.60	\$4.10	\$3.65
2.5mm	5.0A	PS0528	\$4.60	\$4.10	\$3.65
1.00mm - Suits Nokia	500mA	PS0540	\$2.90	\$2.60	\$2.30

Line Sockets Line - Male PS0534 PS0536 Metal body Current (DC) Cat. Qty 1+ Qty 10+ Qty 50+ Туре PS0534 \$5.80 \$5.20 \$4.60 2 1mm 3 0 Δ



					1 303 10
Туре	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm Bulkhead	3.0A	PS0522	\$3.30	\$2.95	\$2.60
2.5mm Bulkhead	5.0A	PS0524	\$3.30	\$2.95	\$2.60
2.1mm Chassis	3.0A	PS0516	\$2.50	\$2.10	\$1.90
2.5mm Chassis	5.0A	PS0518	\$2.50	\$2.10	\$1.90

Surface Mount Male DC Power Connectors

SPST contacts







Туре	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	3.0A	PS0519	\$2.20	\$1.95	\$1.75
2.5mm	5.0A	PS0520	\$2.20	\$1.95	\$1.75

0.7mm PCB Mount DC Socket with SPST Slide Switch

- Snap-in, PCB mounted 0.7mm DC power socket
 SPST black On/Off slide switch
- Electrical rating: 2A @ 15VDC
 Contact resistance: <30m ohm (max)
 Insulation resistance: 100M ohm (min)

- Electrical life: 30,000 cycles
 Dimensions: 15(L) x 10(W) x 14.6(D)mm

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Туре	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7mm PCB	2A	PS0532	\$4.50	\$4.00	\$3.60

DC Power Adaptors









	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
1.3mm Plug to 2.5mm Socket	1A	PA3700	\$4.60	\$4.10	\$3.65
1.3mm Plug to 2.1mm Socket	1A	PA3702	\$4.60	\$4.10	\$3.65
2.1mm Plug to 2.5mm Socket	1A	PA3704	\$4.60	\$4.10	\$3.65
2.5mm Plug to 2.1mm Socket	1A	PA3706	\$4.60	\$4.10	\$3.65
2.1mm Plug to 2.1mm Socket	3A	PA3701	\$4.60	\$4.10	\$3.65
2.1mm Plug to 2.1mm Plug	3A	PA3707	\$4.60	\$4.10	\$3.65

Product Data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!



HARSH ENVIRONMENT

IP67 Rated Multiple Pole Harsh Environment Connectors

C16-1 series connectors offer 3 or 6 pole with pre-engaging earth contact. The mating parts screw together securely to provide environmental protection to IP67.







(h) HIRSCHMANN

Specifications	3 POLE + PE*	6 POLE + PE*
Current Rating	16A	10A
Voltage Rating	380VAC 450VDC	
Insulation Resistance	>10Gohms	
Contact Resistance	<5mohms	
Max Wire Size	2.5mm ²	0.75mm ²

6 Pole

	Cat.	Qty 1+	Qty 10+	Qty 50+
PE Line Plug	PP1000	\$25.90	\$22.90	\$20.90
PE Line Socket	PS1001	\$25.90	\$22.90	\$20.90
PE Chassis Plug	PP1002	\$18.90	\$16.90	\$14.90
PE Chassis Socket	PS1003	\$18.90	\$16.90	\$14.90
Plug Dust Cap	PP1004	\$12.90	\$11.30	\$10.30







* Means Pre-Engaging

ALL MODELS **Temperature Range** -40°C to +100°C IP67 to IEC60529/ DIN40050 Protection Polyamide 66 Nylon Housing Screw clamp & Gland Nut Strain Relief



3 Pole

	Cat.	Qty 1+	Qty 10+	Qty 50+
PE Line Plug	PP1006	\$22.90	\$20.90	\$17.90
PE Line Socket	PS1007	\$22.90	\$20.90	\$17.90
PE Chassis Plug	PP1008	\$16.90	\$14.90	\$13.90
PE Chassis Socket	PS1009	\$16.90	\$14.90	\$13.90
Socket Dust Cap	PS1005	\$12.90	\$11.30	\$10.30

LTW IP67 HARSH ENVIRONMENT CIRCULAR CONNECTORS

Perfect for harsh environments such as marine, industrial, outdoor, automotive, etc.

- IP67 rated
- Locking bayonet connection
- Gold plated
- UL
- \//
- So
- 2 p

L rated lide temp.: -40°C to +105°C	3)		
older pins pin version rated to 5A	PS0541	PS0542	PS0547

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin Line Socket	PS0541	\$18.90	\$16.90	\$14.90
2 Pin Panel Mount Plug	PP0542	\$11.90	\$10.90	\$9.50
Dust Cap to suit	PS0547	\$8.90	\$7.70	\$6.70

M8 CIRCULAR

Commonly used in process control instrumentation. All connectors are field installable.

3A rated



			PS4301
Туре	Cat.	Qty 1+	
3 Way Socket	PS4301	\$6.90	
4 Way Socket	PS4303	\$6.90	

JST / XHP / PH2 CRIMP

JST Crimp Connectors 2 Way

JST type crimp connectors for hobby use. Extensively used on batteries and other connectors in RC hobbies and models. Sold as a pair of 2 maning M/F connectors. Suitable for cable up to 1.3mm OD.



Cat.	Qty 1+	Qty 10+	Qty 50+
PT4452	\$5.90	\$5.20	\$4.70

Connectors Kit with Popular JST XHP and PH2 Headers

The kit includes the JST XHP 2,3,4, and PH2 housings and headers. Commonly used for prototyping, repairs, and many more applications.

See the website for full contents



	Cat.	Qty 1+	Qty 10+	Qty 50+
320 Piece	PT4457	\$22.90	\$20.90	\$17.90

DEANS & BULLET STYLE

60A 2 Pole Gold Plated Connector Set

These are the industry standard in high performance connectors. Rated number one by RC Car Action, the world's leading RC car racing magazine. These connectors offer considerably less resistance than their competitors and are rated at 60 amps. Supplied as a pair.





Rating		Cat.	Qty 1+	Qty 10+	Qty 50+
50A	Pair	PT4450	\$5.80	\$5.20	\$4.60

EC3 Bullet Connectors

6

Rating

40A

Polarity sensitive EC3 bullet style plug and socket. Commonly used to connect Li-Po batteries to RC

Solder type. 1 plug and socket per packet

Joider type. I plug and socket per packet				
Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
40A	PT4456	\$6.90	\$6.20	\$5.50

EC5 Bullet Connectors - Plug & Socket

Essentially 5mm banana connectors in a case capable of up to 120 continuous amp with 10 awg wire. The popularity of this connector has grown as it is now widely used on RC & portable power

Sold as a pair of plug & socket



XT60 2 Way Bullet Connectors

Made from high temperature nylon with gold plated terminals. Ensures a solid high current connection that will handle 65 amps constant.

• Solder type. One plug & socket per packet



Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
65A	PT4458	\$6.90	\$6.20	\$5.50

NBN 8 Pin Connector with Bare Leads

This NBN Replacement connector is a Molex 8 Pin plug pre-assembled with 2C 300mm cable with bare ends. Simply clip the connector of any standard 12V 2.5A plug pack and solder/ heathshrink this connector on. This power supply can now be used to bypass your NBN battery back-up.



Cat	. Qty	ı+ Cztyı	0+ Qty 50+
Molex for NBN Battery PP2	028 \$5.6	\$5.00	\$4.40

A222 ⊶ Freecall order hotline: 0800 452 922 jaycar.co.nz

HEATSHRINK

Heatshrink Tubing - 5m Roll - 2:1

Purchase as a 5m box that can be neatly stacked and organised in the workshop or tradesman's van. Shrink with a heat gun, hairdryer or gas burner



Halogen Free





Specifications	ALL MODELS
Material	Polyethylene
Shrink Ratio	2:1
Operating Temperature	-55°C to +125°C
Shrink Temperature	Start at 70°C and full recovery at 110°C
Flammability	VW-1
Approvals	RoHS and UL224
Colour	Black or Red
Roll Length	5m
Box Dimensions	49(W) x 177(H) x 165(D)mm

Dia	Shrinks to	Black	Red	1+ Rolls	4+ Rolls	10+ Rolls
1.5mm	0.75mm	WH5680	WH5690	\$6.90	\$6.20	\$5.50
2.5mm	1.25mm	WH5681	WH5691	\$7.90	\$7.10	\$6.30
3.0mm	1.5mm	WH5682	WH5692	\$8.90	\$8.00	\$7.10
5.0mm	2.5mm	WH5683	WH5693	\$8.90	\$8.00	\$7.10
10.0mm	5mm	WH5684	WH5694	\$13.90	\$12.90	\$10.90
16.0mm	8mm	WH5685	WH5695	\$18.90	\$16.90	\$14.90
20.0mm	10mm	WH5686	WH5696	\$26.90	\$23.90	\$21.90

Heatshrink Tubing with Glue Lining 4:1

The heat sensitive glue on the internal wall of the tube melts when heat is applied, allowing for a professional water and dust resistant seal.

• Sold in 1.2m lengths





Dia	Shrinks to	Red	Black.	Qty 1+	Qty 4+	Qty 10+
4mm	1mm		WH5640	\$5.90	\$5.20	\$4.70
6mm	1.5mm		WH5641	\$6.90	\$5.90	\$5.20
8mm	2mm NEW	WH5647	WH5642	\$7.90	\$7.10	\$6.30
12mm	3mm		WH5643	\$8.90	\$8.00	\$7.10
16mm	4mm		WH5644	\$9.90	\$8.90	\$7.90
19mm	4.75mm		WH5645	\$15.90	\$13.90	\$12.90
24mm	6mm		WH5646	\$19.90	\$17.90	\$15.90

Heatshrink Tubing Our heatshrink is flexible and made

from flame-resistant polyolefin.

- Made to UL224 E180908 125°C • Shrinks to 50% of its size
- Shrink with a heatgun, hairdryer or a gas burner,
- match etc • 1.2m Lengths
- * Clear heatshrink not halogen free

2:1 Shrink Ratio Halogen Free

161 Piece Heatshrink Pack with Gas Powered Heat Blower

A great addition to your workshop or toolbox. The handy box includes an assortment of 160 heatshrink tubes in 7 different colours and diameters, plus 1 gas powered heat gun with Piezo ignition and flame or flame-less output. All supplied in a transparent lightweight box that measures

- Dimensions: 242(L) x 175(W) x 30(H)mm
- Use NA1020 Butane Gas



Colour					
15mm x 500mm: Black					
1.5mm x 100mm: 10 x green, red, yellow, blue, white & transparent					
2.5mm x 100mm: 6 x green, red, yellow, blue & transparent, 5 x white					
3.5mm x 100mm: 4 x green, red, yellow, blue & white, 4 x transparent					
5.0mm x 100mm: 3 x green, yellow, blue & white, 4 x red & transparent					
6.0mm x 100mm: 2 x red, yellow, blue & transparent, 1 x green & white					
10mm x 100mm: 2 x red, yellow, blue & transparent, 1 x green & white					
Pack	Cat.	Qty 1+	Qty 3+	Qty 6+	

Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
161 Pieces	TH1620	\$52.90	\$46.90	\$41.90

Heat Shrinkable Braided Sleeving

Provides added protection to cables against flames and abrasion. Consists of polyester multi-filament and special modified polyolefin filament, which will shrink when exposed to a heat source (Heat gun recommended). The unique woven construction makes it extremely flexible and easy to install on the hoses with irregular shapes.

Specifications	ALL MODELS	
Operating Range	-40°C to +125°C	
Minimum Shrink Temperature	90°C	
Minimum Fully Recovery Temperature	120°C	
Flammability	Self-extinguishing	
Shrinking Ratio	2:1	
Approved	RoHS, Halogen Free	
Shrink Ratio	2:1	
Length	1.2mm	

Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
10	5	WH5620	\$5.80	\$5.20	\$4.60
20	10	WH5622	\$6.90	\$6.20	\$5.50
25	12.5	WH5624	\$8.90	\$8.00	\$7.10
30	15	WH5626	\$11.90	\$10.90	\$9.90
25	12.5	WH5624	\$8.90	\$8.00	\$7.10

Yellow & Green Heatshrink Tubing

- 1.2m lengths
- Ideal for indicating earth connections
- Abrasion Resistant & Flame Retardant

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Patio		

Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
3	1.5	WH5610	\$3.90	\$3.10	\$2.70
10	5	WH5612	\$4.90	\$4.10	\$3.70

WH5582

Heatshrink Tube - 50mm Black

Shrinks to (mm)

Ideal for bundling battery packs, but also used for grips on kayak paddles etc. Supplied in 300mm lengths.

25



Qty 1+

\$6.90

2:1 Shrink

2:1	Shrink Ratio	
Ha	alogen Free	

Qty 10+

\$5.50

Qty 4+

\$6.20

Clear riea	isiiiiik not nalogen ne	e.									
Dia (mm)	Shrinks to (mm)	Green	Black	Red	Clear*	Blue	White	Yellow	Qty 1+	Qty 4+	Qty 10+
1.5	0.75	WH5510	WH5530	WH5540	WH5550*	WH5560	WH5570	WH5590	\$1.90	\$1.50	\$1.30
2.5	1.25	WH5511	WH5531	WH5541	WH5551*	WH5561	WH5571	WH5591	\$1.90	\$1.70	\$1.50
3.0	1.5	WH5512	WH5532	WH5542	WH5552*	WH5562	WH5572	WH5592	\$2.50	\$1.90	\$1.70
5.0	2.5	WH5513	WH5533	WH5543	WH5553*	WH5563	WH5573	WH5593	\$2.50	\$2.00	\$1.80
6.0	3	WH5514	WH5534	WH5544	WH5554*	WH5564	WH5574	WH5594	\$2.90	\$2.30	\$2.10
10	5	WH5515	WH5535	WH5545	WH5555*	WH5565	WH5575	WH5595	\$3.90	\$3.10	\$2.70
16	8	WH5516	WH5536	WH5546	WH5556*	WH5566	WH5576	WH5596	\$4.90	\$4.10	\$3.70
20	10	WH5517	WH5537	WH5547	WH5557*	WH5567	WH5577	WH5597	\$6.90	\$5.90	\$5.50

Size (mm)

50

HEATSHRINK PACKS

Comprehensive Heatshrink Pack

• 1 length each of 7 different colours in 7 different sizes ranging from 1.5mm diameter to 20mm.

• Sizes: 1.5, 3, 5, 6, 10, 16 & 20mm Note: Clear is NOT Halogen Free.





Glue Lined Pre-cut Heatshrink Tubing - Trade Pack

A box of six common sizes of 95mm long glue lined heatshrink. Includes 20 pcs 4.0mm, 15pcs. 6.0mm, 10pcs 8.0mm, 5pcs 12mm, 5pcs 16mm & 5pcs 19mm - 60pcs total. This is an economical way to get this product.

- Supplied in a see-through nylon snap shut case
- Box dimensions:



Handy Heatshrink Pack

Handy assortment of our high quality heatshrink tubing. Sizes from 1.5mm to 10mm.

- 10 pieces in all of 300mm & 150mm length
- Colour Red & Black



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Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10 Pieces	WH5525	\$9.90	\$8.50	\$7.50

Heatshrink Assortment Trade Pack

All the heatshrink the technician, tradesman or serious hobby user will ever need. The pack contains 160 lengths of different sizes in a handy storage case.

- 1.5mm: 40 x black, 10 x red, 10 x clear
 2.5mm: 25 x black, 5 x red, 5 x clear
- 3mm: 17 x black, 4 x red, 4 x clear

- 5mm: 14 x black, 3 x red, 3 x clear
 6mm: 6 x black, 2 x red, 2 x clear
 10mm: 6 x black, 2 x red, 2 x clear
- Case size: 205(L) x 110(W) x 35(H)mm

	· ·		All Lines		
Pack	Cat.	Qty 1+	Qty 4+	Qty 10+	
160 Pieces	WH5524	\$29.90	\$26.90	\$23.90	

HIGH TEMPERATURE SLEEVING

High Temperature Basalt Fibre Sleeving

This protective sleeve has been woven from extruded volcanic rock and is the ultimate in cable protection! It will handle temperatures up to 650°C (Our previous fibreglass based product only went up to 450°C). It is also quite strong and abrasion resistant.

Sold in a 1 metre pack and available in two diameters.



Size(mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3	1m	WS5510	\$6.90	\$6.20	\$5.50
6	1m	WS5511	\$8.90	\$8.00	\$7.10

CABLE SLEEVING & WRAP

PVC Spaghetti Tubing Pack - 12 Piece

This sleeving is made from soft PVC. It does not shrink with heat. It is ideal for high-voltage protection of smaller wires, has abrasion resistance or you can bundle several smaller wires inside a length.

- 4 sizes 1.5, 3.0, 5.0 & 10mm
- Colours black, red, yellow, white, clear & blue
- All 300mm long
- 85°C rated



Expandable PPS Sleeving

This PPS (Polyphenylene Sulphide) monofilament sleeving is ideal in high temperature environments and offers a lightweight mechanical protection to your cabling. The construction expands up to 3 times to allow easy insertions of cables and reverts back to original diameter for a snug fitment. The open weave design also dissipates heat and doesn't trap moisture.

Specifications		ALL MOD	ELS		
Material		Polyphenyler	e Sulphide (PPS) n	nonofilament U	L94 V-0
Operating T	emperature	-70°C to 200°	C		
Colour		Black			
Length		2m			
Size (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3	2m	WH5	584 \$4.60	\$4.10	\$3.65
6	2m	WH5	585 \$5.20	\$4.65	\$4.15
10	2m	WH5	587 \$8.90	\$8.00	\$7.10
15	2m	WH5	588 \$14.90	\$13.90	\$11.90

Braided Hook & Loop Loom Wrap - 1.5m

A fantastic solution for keeping cables wrapped up and neatly arranged. Wraps around your cables and secures them with hook and loop. When you need to add or remove cables, just undo the hook and loop. Couldn't be easier!

- Hook and loop width: 20mm
- Material: Polyester
 Working temperature: -50°C to 150°C
- Melting point: 230°C +/- 5°C

Size (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
32	1.5m	WH5654	\$21.90	\$19.90	\$17.90
51	1.5m	WH5656	\$26.90	\$23.90	\$21.90

Self-Closing Braided Wrap

Protect cabling neat and tidy, and protected from abrasion, wear and tear using this flame resistant self closing wrap. Each 2m length is flexible and lightweight, and the open structure allows it to be easily installed without having to remove connectors or terminals.

maxing to remove comments or terminals.		
Specifications	ALL MODELS	
Material	PET Polyethylene Terephthalate	
Operating Range	-50°C to +150°C	
Melt Point	250°C +/- 5°C	
Flammability	VW-1	
Certificate	RoHS, Halogen Free	
Cutting Tool	Hot knife	
Colour	Black	
Length	2m	

- 3				_		
Size (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+	
6	2m	WH5630	\$9.90	\$8.90	\$7.90	
9	2m	WH5632	\$11.90	\$10.90	\$9.90	
13	2m	WH5634	\$15.90	\$13.90	\$12.90	
10	2m	WH2434	¢10 00	¢17.00	¢15.00	

Related Product: 2000W 240V ADJUSTABLE **TEMPERATURE HEAT GUN** See page A27 for more details







CABLE MANAGEMENT

HEATSHRINK ACCESSORIES

Solder Splice Heatshrink Tube

Solder splice heat shrink tubes allow you to quickly join two cables thanks to the small section of solder in the middle of the tube. Simply slide a tube over the join in two cables and heat as you would any other shrink tube. As the tube shrinks the solder melts to electrically connect the wires resulting in a join which is reliable and well insulated. Available in four sizes approximately 26-40mm in length with 5 pieces per pack. Shrink ratio 2:1.



- Starting temp. of solder melt: 140°C
 Operating temp.: 55°C to 125°C
- Minimum full recovery temp.: 160°C





Dia. x Length (mm)	Pk	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
1.7 x 26	6	Clear	WH5669	\$6.90	\$6.20	\$5.50
2.7 x 40	5	Red	WH5670	\$6.90	\$6.20	\$5.50
2.7 x 40 NEW	100	Red	WH5697	\$84.90	\$75.90	
4.5 x 40	5	Blue	WH5671	\$6.90	\$6.20	\$5.50
4.5 x 40 NEW	100	Blue	WH5698	\$84.90	\$75.90	
6.0 x 40	5	Yellow	WH5672	\$6.90	\$6.20	\$5.50
6.0 x 40 NEW	100	Yellow	WH5699	\$84.90	\$75.90	

Assorted Solder Splice Heatshrink Pack

A handy assorted pack of 42 solder splice heatshrink tubes to join electrical wires quickly and easily and make a good quality join. Each splice has just the right amount of solder to create a secure connection. Kit includes:

- 12 x White 1.7 x 26mm
 12 x Red 2.7 x 40mm
 12 x Blue 4.5 x 40mm
 4 x Yallaw 6.0 x 40mm

• 6 x fellow 6.0 x 40ffiffi					
Pack	Cat.	Qty 1+	Qty 4+	Qty 10+	
42	WH5668	\$46.90	\$41.90	\$36.90	

TAPE

Heatshrink Tape - Black

Ideal for emergency repairs or when you aren't able to use a piece of tubing. It conforms to odd shapes that heatshrink tubing is unable to, and has a low melting point adhesive for easy installation. It also remains flexible at extremely low temperatures. Keep a roll in the toolbox.

• Operating temperature: -40 - 105°C

• Shrink temperature: 125°C

Width (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
25	5m Roll	WH5659	\$19.90	\$17.90	\$15.90

WIRE GLUE

Wire Glue

A soldering iron in a jar. Wire Glue is an electrically conductive adhesive that enables you to make solder-free connections when you don't have a soldering iron handy, or aren't able to apply heat for some reason. Hundreds of hobby, trade and electronics uses. Lead-free, cures overniaht.



Cat. O	Ωty 1+	Qty 4+	Qty 10+
9ml NM2831 \$	511.90	\$10.70	\$9.50

CABLE MANAGEMENT

Rectangular Cable Duct - 1m

neatly out of the way. Available in two sizes and in convenient 1m lengths, the leads to your wall-mounted TV will be kept bundled up but easily accessible. The cover can be quickly removed and replaced for maintenance and can be painted



Size (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
25 x 16	1m	HP1330	\$8.90	\$7.90	\$6.90
50 x 25	1m	HP1332	\$11.90	\$10.70	\$9.50

Floor or Wall Cable Ducting

This extruded ducting helps conceal messy cables across doorways, along skirting boards or walls. The ducting is 50.8mm wide and is sold in convenient 1.83m lengths.





Size	Cat.	Qty 1+	Qty 4+	Qty 10+
1.83m	HP1226	\$21.90	\$19.90	\$17.90

Carpet Cable Cover - Sold by the Roll or Metre

Conceal unsightly cords and eliminate trip hazards with this low profile cord cover. Its 'cut to length' flexibility avoids the constraints of similiar cord covers. Just lay it over your cords, and let the "hook and loop" technology on the underside do its job on your

nylon based carpet to secure your cables in place. The channel along the middle allows you to reconfigure your set up without the need to remove any cords. Re-usable over 1,000 times, machine washable and a fraction of the price of other carpet cord covers. The ideal solution for

any office, boardroom, meeting room or public space. Choose from black to keep cable runs discreet, or yellow to prevent people tripping over it.

- 100mm wide
- Sold in handy 5m roll, 25m dispenser box, or by the metre



Sold Per I	Metro	e from 25m Dispenser	Cat.	Qty 1+	Qty 5+	Qty 25+
Black		Per Metre	HP2000	\$14.90	\$11.78	\$9.96
Yellow		Per Metre	HP2002	\$14.90	\$11.78	\$9.96
5 Metre R	olls		Cat.	Qty 1+	Qty 4+	Qty 10+
Black		5m Roll	HP2004	\$58.90	\$52.90	\$46.90
Yellow		5m Roll	HP2006	\$51.90	\$45.90	\$40.90

Carpet Cable Cover 1.5m

Increase safety when cables need to be laid across floors. It's durable and will significantly reduce the trip-hazard of cables. Secures to carpet with plastic hook & loop. • Weight: 135g

- Length: 1.5m
- Dimensions: 1500(L)m x 120(W)mm

Width (mm)	Length	Cat.	Qty 1 +	Qty 4+	Qty 10+
120	1.5m	HP1231	\$18.90	\$16.90	\$14.90

Cable Tags

Clip them over your cable so you know what you're unplugging (before you disconnect the wrong thing!). Suits most power and A/\(\) cables. Pack of 8 with writable surface.

- Universal
- Weight: 1.2gDimensions: 34(L) x 16(W) x 3(H)mm
- Material: Thermoplastic Rubber

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP1253	\$7.90	\$7.10	\$6.30

Cable Clips

Universal fit to keep your cables where you want them. Included genuine 3M adhesive tape. Simply stick down, and push your cable into place. Pack of 6.

- Universal (Cable dia. up to 8mm) • Genuine 3m tape
- Weight: 5g
- Dimensions: 28(Dia.) x 15(H)mm



Pack Cat 6 HP1254 \$7.90 \$7 10 \$6.30

Desk Cable Organiser

Provides 5-slots for keeping cables from sliding off the table. Great for laptops, charging cables, or anywhere you temporarily connect devices.

- Rubber moulded design
- Weighted base
- Weight: 66gDimensions: 70(W) x 30(D) x 40(H)mm





CABLE MANAGEMENT CONTINUED

Dune Tube with Applicator

Keep your cables neat and tidy. They are easily bent for corners and are slit so cables can enter or leave at any point. Simply slip in the cable, insert the applicator and slide away. Easier to use than Spiral Binding; more secure than Loom Tube!



Dia.	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
15mm	2.5m	HP1235	\$13.90	\$12.90	\$10.90
20mm	2.5m	HP1237	\$15.90	\$13.90	\$12.90
20mm	10m	HP1239	\$54.90	\$48.90	\$43.90

Spiral Binding

Keep wiring tidy! Available in 2 sizes and colours and is easily wrapped around bunches of cables to keep them tidy.



Туре	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm Clear	2.5m	HP1218	\$4.10	\$3.65	\$3.25
12mm Clear	1.5m	HP1219	\$5.20	\$4.65	\$4.15
6mm Black	2.5m	HP1220	\$4.10	\$3.65	\$3.25
12mm Black	1.5m	HP1222	\$5.20	\$4.65	\$4.15

Round Desk Grommet

The perfect way to easily and neatly store your cables. It is ideal for installation in desks, workstation's, telephone cabinets or entertainment unit's. Simply drill or cut a 60mm hole through the surface & insert the grommet into the hole.



Dia.	Cat.	Qty 1+	Qty 4+	Qty 10+
60mm (diameter)	HP1228	\$14.90	\$13.90	\$11.90

Loom Tubes

Tidy up the cables behind your PC or audio equipment, secure cabling in your car. The Loom Tube will keep wiring in place and suits many types of applications. The tube has a slit so that cables can enter/leave at any point along its length. Made from black flexible PVC.

- Diameters available: 7, 10, 19, 25, 40, 48mm
- · Available in either 2m or 10m lengths just cut to suit





			-		
Dia.	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
7mm	2m	HP1221	\$4.00	\$3.60	\$3.20
10mm	2m	HP1224	\$5.20	\$4.65	\$4.15
19mm	2m	HP1227	\$6.90	\$6.20	\$5.50
25mm	2m	HP1801	\$7.90	\$7.10	\$6.30
40mm	2m	HP1807	\$11.90	\$10.90	\$9.90
48mm	2m	HP1810	\$13.90	\$12.90	\$10.90
7mm	10m	HP1223	\$17.90	\$15.90	\$14.30
10mm	10m	HP1225	\$21.90	\$19.90	\$17.90
19mm	10m	HP1229	\$29.90	\$26.90	\$23.90
25mm	10m	HP1804	\$34.90	\$30.90	\$27.90

RUBBER FEET

Small Stick On

Dimensions: 12 x 12mm

- Height 6mm
- · Moulded in oil resistant synthetic rubber

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP0815	\$3.10	\$2.80	\$2.50
20	HP0816	\$9.90	\$8.50	\$7.50

Large Stick On

- Dimensions: 20 x 20mm
- Height 8mm
- · Moulded in oil resistant synthetic rubber



4	-

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+	
4	HP0825	\$4.90	\$4.10	\$3.70	
20	HP0822	\$11.90	\$10.70	\$9.50	

Screw On Equipment Feet

- Silver in colour
- Screw on

3







Dia.	Cat.	Qty 1+	Qty 4+	Qty 10+
30	HP0830	\$8.90	\$7.90	\$6.90
50	HP0832	\$10.90	\$9.50	\$8.50

Screw Fixing Rubber Feet

Requires 3mm screw and nut.

- 11mm dia. x 7.5mm high
- Moulded in oil resistant synthetic rubber

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP0800	\$5.90	\$5.30	\$4.80

RUBBER GROMMETS

Rubber Grommets

Suitable for use with chassis up to 16 gauge/1.5mm.

• Moulded in oil resistant synthetic rubber - black colour



HP0702

Cable Dia.	Chassis Hole	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+	
6mm	9.5mm	8	HP0702	\$4.90	\$4.10	\$3.70	
9.5mm	12.7mm	8	HP0704	\$5.90	\$4.90	\$4.40	

CABLE GLANDS

IP68 Nickel Plated Brass Cable Glands

These nickel-plated brass cable glands are certified to IP68 and provide superior grip and sealing. They are totally protected and O-ring sealed against the ingress of dust, moisture and water to a depth of one metre. The unique design speeds installation and eliminates the need

to disassemble the gland before fitting. A self-adjusting cable seal allows the glands to be used on a wide range of cable sizes and minimises inventory holdings. These glands are supplied complete with seals and locknuts. 5 sizes are available.



Cable Size	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
3 to 6.5mm	2	HP0744	\$9.90	\$8.90	\$7.90
4 to 8mm	2	HP0745	\$11.90	\$10.90	\$9.90
5 to 10mm	2	HP0746	\$13.90	\$12.90	\$10.90
6 to 12mm	2	HP0747	\$15.90	\$13.90	\$12.90
10 to 14mm	2	HP0748	\$16.90	\$14.90	\$13.90

IP68 Waterproof Cable Glands

These unique cable clamps incorporate a unique sealing mechanism which works on the camera shutter principle Simply mount the clamp, insert the cable through and tighten up. There is no need to disassemble the clamp prior to installation. These clamps are rated to IP68. They are totally dust tight and protected against submersion in water.

- Trapezoidal thread for quick high
- torque tightening
 No throwaway "O" rings
- Long metric thread
- Superior strain relief • UL Approved NYLON 94V-2



Cable Dia.	Thread	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
3-6.5mm	EP-7	2	HP0720	\$5.90	\$5.20	\$4.70
4-8mm	EP-9	2	HP0724	\$6.90	\$6.20	\$5.50
5-10mm	EP-11	2	HP0727	\$7.90	\$7.10	\$6.30
6-12mm	EP-13.5	2	HP0732	\$8.90	\$8.00	\$7.10
10-14mm	EP-16	2	HP0736	\$8.90	\$8.00	\$7.10
13-18mm	EP-21	2	HP0740	\$11.90	\$10.90	\$9.90

Cordgrip Clamps

HP0716 7.4mm - 8.2mm diameter (3 wire mains).

- Panel cutout 14mm
- Black nylon

HP0718 6.2mm - 7.4mm diameter

Panel cutout 11.5mm





CABLE MANAGEMENT

CABLE TIES

Metal Cable Ties

Made from 316 marine grade stainless steel for the ultimate in durability. Self-locking head design, suitable for virtually any use, boating, outdoors,underground, anywhere a plastic cable tie won't cut it.



• Totally impervious to harsh sunlight

Length	Width	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	4.6mm	HP1182	\$6.90	\$6.20	\$5.50
290mm	4.6mm	HP1184	\$7.90	\$7.10	\$6.30
200mm	7.9mm	HP1186	\$8.90	\$8.00	\$7.10
520mm	7.9mm	HP1188	\$13.90	\$12.90	\$10.90

Plastic Cable Ties

- UV resistant black nylon
- Safe edges

1	Pack	C-1	011.	014.	01-10-
Length	Раск	Cat.	Qty 1+	Qty 4+	Qty 10+
100mm	20	HP1200	\$2.50	\$1.90	\$1.70
150mm	15	HP1201	\$2.90	\$2.30	\$2.10
200mm	15	HP1202	\$3.10	\$2.80	\$2.50
300mm	15	HP1245	\$3.90	\$3.10	\$2.70
500mm	15	HP1248	\$7.90	\$7.10	\$6.30
605mm	15	HP1249	\$11.90	\$10.90	\$9.90
100mm	100	HP1203	\$5.90	\$5.20	\$4.70
150mm	100	HP1204	\$9.90	\$8.50	\$7.50
200mm	100	HP1205	\$13.90	\$12.30	\$10.90
300mm	100	HP1246	\$16.90	\$14.90	\$13.90
100mm	500	HP1211	\$21.90	\$19.30	\$16.90
150mm	500	HP1212	\$36.90	\$33.20	\$29.50
200mm	500	HP1213	\$46.90	\$41.90	\$36.90
300mm	500	HP1247	\$64.90	\$57.90	\$51.90

Extra Long Mixed Cable Tie Set

This handy cable tie set contains 70 black cable ties of various lengths up to 500mm.

- 10 pcs 500(L) x 10(W)mm
 10 pcs 510(L) x 8(W)mm
 20 pcs 400(L) x 5(W)mm

- 30 pcs 300(L) x 4(W)mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
70	HP1209	\$34.90	\$30.90	\$27.90

Coloured Cable Ties

Identify wiring looms with different coloured cable ties. Pack includes 25pcs each of red. yellow, green, blue and black.

- Total 125 cable ties
- Length 100mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
125	HP1196	\$11.90	\$10.70	\$9.50

Mixed Hook & Loop Cable Ties

Keep your cables neat and tidy. Packet of 16 hook & loop cable ties in assorted sizes from 125 to 180mm.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
16	HP1232	\$16.90	\$14.90	\$13.90

100mm Label Cable Ties

Ideal for large or complex wiring looms, these allow you to label cable bundles for identification later to make tracing or fault finding easy. Easily marked with permanent marker or self-adhesive labels



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
20	HP1244	\$4.50	\$3.70	\$3.30

Releasable Cable Tie Pack

Releasable cable ties are perfect for temporarily securing cables or for jobs where you need to periodically change cables. This handy pack contains 10 pieces at lengths of 125, 200, and 300mm. The release lever is located below the head of the cable tie making it easy to access but unlikely

to be released accidentally. The ties are made from UV resistant black nylon and have safe edges to prevent cuts.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HP1217	\$11.90	\$10.90	\$9.90

Reusable Flexible Black Cable Ties 8 Pack

Reusable cable ties used to temporarily mount LED strip lights in place on poles, tree branches, etc



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
Reusable 8	HP1234	\$7.90	\$7.10	\$6.30

Cable Tie Tidy Kit

Consists of:

- 30 x 120mm cable ties,
- 20 x 120mm reusable cable ties
- 10 x self adhesive cable tie mounts
- 20 x saddle type cable tie mounts



	Cat.	Qty 1+	Qty 4+	Qty 10+
80	HP1198	\$14.90	\$13.90	\$11.90

Cable Tie Box - 400 Pieces

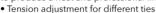
Let's face it, the mixed box of cable ties in all the colours of the rainbow is fine, however most of the time you only use about 2-3 different sizes and the black colour because of its UV stability. This is your box. This kit consists of: 100 pcs x 200mm, 100 pcs x 150mm, 200 pcs x 100mm. All in a see through flat storage case that makes access to the ties easy. The box even has some compartment dividers included so that it becomes a parts storage box when all of the ties have been used up.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
400	HP1216	\$31.90	\$27.90	\$24.90

Cable Tie Gun

Once you have wrapped the tie around the cable you simply slide the tail into the gun and pull the trigger. This will tighten the tie and cut off the excess to produce a neat and professional finish.



Cat.	Qty 1+	Qty 4+	Qty 10+
TH2600	\$34.90	\$30.90	\$27.90

Hook & Loop Cable Ties

Tidy up behind the TV or audio equipment with these re-usable hook & loop cable ties. Each tie is 140mm in length.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
5	HP1210	\$5.90	\$5.20	\$4.70

CABLE TIE MOUNTS

Adhesive Cable Tie Mounts

These are used in conjunction with our cable ties. They simply stick to the surface, then the cable tie is looped through and around the cables.

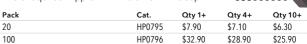


Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HP1195	\$5.50	\$4.70	\$4.30

Concrete Cable Tie Mounts

Use these cable tie mounts in runs along walls and ceilings made of brick or concrete.

- UL 94V-2 approved Nylon
- Hole required: Approx. 7mm dia x 37mm deep





A227



FASTENERS & SCREWS

Metric Nylon Fasteners

- Precision moulded from white nylon
- Fully insulated
- Corrosion free and won't shake loose
- Supplied in polybag



M3 Nylon Screws, Nuts & Washers

M3 x 12mm Screws, Phillips Drive 10 HP0140 \$3.90 \$3.10 \$2.	70
10 111 0140 \$3.70 \$5.10 \$2.	•
M3 x 25mm Screws, Phillips Drive 10 HP0142 \$4.50 \$3.70 \$3.	30
M3 Nuts Hex 10 HP0146 \$3.90 \$3.10 \$2.	70
M3 Nuts Hex with Washer 25 HP0150 \$7.90 \$6.90 \$5.	90
M3 Washer Flat 10 HP0148 \$3.10 \$2.80 \$2.	50

M4 Nylon Screws, Nuts & Washers

Size	Туре	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
M4 x 10mm	Screws, Phillips Drive	25	HP0160	\$9.00	\$7.90	\$6.90
M4 x 16mm	Screws, Phillips Drive	25	HP0162	\$10.90	\$9.90	\$8.90
M4 Nuts	Нех	25	HP0168	\$8.90	\$7.90	\$6.90
M4 Washers	Flat 10mmOD, 4.2mm ID	25	HP0166	\$6.00	\$5.20	\$4.70

Woodscrews - Phillips Head

- Ideal for mounting speakers
- Black finish
- No.6 size suitable for tweeters, midrange and crossovers

 No.10 size s 	suitable for Woofers			#	*	7 7
Size	Туре	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
No.6 x 15mm	Round Head (Tweeters)	20	HP0620	\$5.90	\$5.20	\$4.70
No.6 x 15mm	Countersunk	20	HP0626	\$5.90	\$5.20	\$4.70
No.8 x 25mm	Countersunk	20	HP0625	\$7.90	\$7.20	\$6.50
No.10 x 30mm	Round Head (Woofers)	20	HP0624	\$7.90	\$7.20	\$6.50

20 HP0628 \$7.90

\$7.20

\$6.50

No.10 x 30mm Countersunk **Self-Tapping Screws**

Nickel plated Steel

Size	Туре	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
No.4 x 6mm	Phillips Head	25	HP0550	\$3.90	\$3.10	\$2.70
No.4 x 9mm	Phillips Head	25	HP0565	\$5.80	\$5.20	\$4.60
No.4 x 12mm	Phillips Head	25	HP0554	\$4.50	\$3.70	\$3.30
No.8 x 12mm	Phillips Head	25	HP0558	\$4.90	\$4.30	\$3.70

Metric Metal Thread Fasteners

- Nickel or Cadmium Plated and passivated screws
- Supplied in polybag



M2 Screws

Size	Туре	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
M2 x 8mm	Screw, Pozi Drive	4	HP0390	\$1.90	\$1.60	\$1.40

M3 Equipment Screws

*Black japanned screws used holding top/side panels on VCR, DVD, Amplifiers, etc.

Size	Туре	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 5mm	Screw, Phillips, Black	25	HP0440	\$2.90	\$2.40	\$2.10
M3 x 5mm	Screw, Phillips, Black	200	HP0441	\$8.90	\$8.00	\$7.10

M3 Screws, Nuts & Washers

Size	Type	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 6mm	Screw, Phillips	25	HP0400	\$3.10	\$2.80	\$2.50
M3 x 6mm	Screw, Phillips	200	HP0401	\$8.90	\$8.00	\$7.10
M3 x 10mm	Screw, Phillips	25	HP0403	\$3.90	\$3.10	\$2.70
M3 x 10mm	Screw, Phillips	200	HP0404	\$9.90	\$8.90	\$7.90
M3 x 15mm	Screw, Phillips	25	HP0406	\$4.50	\$3.70	\$3.30
M3 x 15mm	Screw, Phillips	200	HP0407	\$11.90	\$10.90	\$9.90
M3 x 20mm	Screw, Phillips	25	HP0410	\$4.50	\$3.70	\$3.30
M3 x 25mm	Screw, Phillips	25	HP0414	\$4.50	\$3.70	\$3.30
M3 x 32mm	Screw, Phillips	25	HP0418	\$4.90	\$4.30	\$3.70
M3 Nuts	Hex	25	HP0425	\$3.90	\$3.10	\$2.70
M3 Nuts	Hex	200	HP0426	\$11.90	\$10.70	\$9.50
M3 Washers	Flat	25	HP0430	\$3.90	\$3.10	\$2.70
M3 Washers	Flat	200	HP0431	\$11.90	\$10.90	\$9.90
M3 Washers	Shakeproof	25	HP0433	\$4.50	\$3.70	\$3.30
M3 Washers	Spring	25	HP0436	\$5.80	\$5.20	\$4.60

M4 Screws, Nuts & Washers

SIZE	TYPE	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
M4 x 10mm	Screw, Phillips	25	HP0450	\$4.50	\$3.70	\$3.30
M4 x 10mm	Screw, Phillips	200	HP0451	\$14.90	\$13.90	\$11.90
M4 x 15mm	Screw, Phillips	25	HP0453	\$5.90	\$5.30	\$4.80
M4 Nuts	Hex	25	HP0462	\$4.50	\$3.70	\$3.30
M4 Washers	Flat	25	HP0465	\$4.50	\$3.70	\$3.30
M4 Washers	Shakeproof	25	HP0468	\$4.90	\$4.30	\$3.70

M6 Rack Screws, Nuts & Washers

Suitable for mounting rack style enclosures into rack units.



Size	Туре	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
M6 x 16mm	Screw, Pozi Drive, Black	12	HP0300	\$7.90	\$7.10	\$6.30
M6 Nuts	Captive Nuts	12	HP0310	\$9.90	\$8.90	\$7.90
M6 Washer	Flat Washer	12	HP0322	\$4.50	\$3.70	\$3.30

NUTS & SPRINGS

Potentiometer Nuts

Packet of 12 potentiometer nuts and washers.





Size	Thread	Pk	Cat.	Qty 1+	Qty 10+	Qty 50+
24mm	3/8" 32THD	12	RP3500	\$7.90	\$6.30	\$5.50
16mm	Metric	12	RP7500	\$7.90	\$6.30	\$5.50

200 Piece Spring Assortment

This set contains approximately 200 springs, with 20 different types, compression and tension. They range from 10mm long to 70mm long.

Sizes for all are given on the lidSupplied in a plastic storage case



	Cat.	Qty 1+	Qty 4+	Qty 10+
200 Pieces	HP0638	\$24.90	\$22.40	\$19.90

Thread Repair Kits (Small Metric) M4 - M6

These products enable you to drill out a stripped or otherwise damaged thread in a blind hole. You can then insert a replacement thread with the coiled thread inserts and regain full function of the threaded hole, often giving a much stronger thread than the original one. This also works when a damaged stud or screw shaft has been

removed. • Includes: Drill bit, thread tap, insertion tool, tag punch and 10 inserts of the nominated

thread size.

Three versions available.

Туре	Cat.	Qty 1+	Qty 3+	Qty 6+
For M4	HP1602	\$36.90	\$33.20	\$29.50
For M5	HP1604	\$36.90	\$33.20	\$29.50
For M6	HP1606	\$36.90	\$33.20	\$29.50

SPACERS

Untapped Nylon PCB Spacers

Superb range of spacers. Fixing is by size 6 or 8 self tapping screws. The hex centre section can be gripped to prevent rotation while fixing.

• OD 8.2mm



Length	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	5	HP0980	\$4.60	\$4.10	\$3.65
12mm	5	HP0982	\$4.60	\$4.10	\$3.65
19mm	4	HP0984	\$4.60	\$4.10	\$3.65
25mm	4	HP0986	\$5.20	\$4.65	\$4.15
32mm	4	HP0988	\$5.80	\$5.20	\$4.60
38mm	4	HP0990	\$5.80	\$5.20	\$4.60

Untapped Nylon Spacers

- UntappedID 4.1mm, OD 6.4mm





Length	Diameter	Pk	Cat.	Qty 1+	Qty 4 +	Qty 10+
6mm	6mm	25	HP0930	\$8.90	\$7.90	\$6.90
10mm	6mm	25	HP0934	\$9.90	\$8.50	\$7.50



MOUNTING ACCESSORIES

SPACERS CONTINUED

3mm Tapped Nylon Spacers

These spacers are tapped all the way through for a 3mm screw.

• OD 6mm



Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.3mm	25	HP0920	\$10.90	\$9.50	\$8.50
9mm	25	HP0922	\$11.90	\$10.70	\$9.50
12mm	25	HP0924	\$11.90	\$10.70	\$9.50
15mm	25	HP0926	\$15.90	\$14.30	\$12.70

Untapped Metal Spacers

- Nickel plated steel
- Untapped
- ID: 3.4mm OD 4.7mm



Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	8	HP0860	\$5.20	\$4.65	\$4.15
9mm	8	HP0862	\$5.50	\$4.95	\$4.40
12mm	6	HP0864	\$5.90	\$5.30	\$4.70
25mm	4	HP0866	\$6.90	\$6.20	\$5.50

3mm Tapped Metal Spacers

- Nickel plated brass
- 3mm standard metric thread



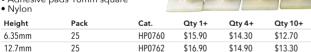
Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10mm	8	HP0900	\$5.80	\$5.20	\$4.60
10mm	100	HP0901	\$39.90	\$35.90	\$31.90
15mm	8	HP0904	\$6.90	\$6.20	\$5.50
25mm	8	HP0907	\$7.90	\$7.10	\$6.30

PCB STANDOFFS

Adhesive PCB Standoffs

The self adhesive base sticks directly to the chassis.

- Requires 4mm PCB hole
- Adhesive pads 18mm square



Screw Mount PCB Supports

These supports have a 2.5mm hole for securing to chassis with a screw, use 3 x 10mm or a self tapper.

Pack

25

25

- Requires 4mm PCB hole
- Nylon Height

10_{mm}



Flush Mount PCB Supports

These virtually flush mount on the underside of the chassis.

- PCB hole 4mm
- Chassis hole 5.5mm
- Chassis thickness 0.8-1.2mm
- Nylon

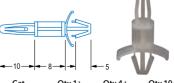


Screwless PCB Standoff

Nylon

Saves using nuts, bolts and Size 8mm. Requires 3mm

hole each end



	 			W
Pack	Cat.	Qty 1+	Qty 4+	Qty 10-
3	HP0770	\$3.10	\$2.80	\$2.50

Metal Right Angle Standoffs

Threaded M3 x 0.5 standoffs, right angle.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP0872	\$5.90	\$5.20	\$4.70

CABLE CLIPS / CLAMPS

Adhesive Cable / Bundle Mounts

These have an adhesive base 25 x 18mm and cable tie that clips into the base to retain individual cables, or bundles of wiring. The maximum cable bundle diameter accommodated is 17mm.

• The base also has a 3mm hole for a screw mount if required



Adhesive Cable Clips

The easy way to secure cables to walls, cabinets etc. Simply peel off adhesive cover and slip cable in.

- Please note all sizes are in mm
- Nylon

Cat.	L	Н	
HP0782	11.7	5.9	
HP0784	13.4	8.2	
HP0786	19.0	11.9	

•	110700	17.0	11.7				
F	Pack			Cat.	Qty 1+	Qty 4+	Qty 10+
2	25			HP0782	\$11.90	\$10.70	\$9.50
2	25			HP0784	\$13.90	\$12.30	\$10.90
2	25			HP0786	\$13.90	\$12.30	\$10.90

Cable Clips

These clips are made using a high-density polyethylene plastic material and galvanised high carbon steel nails. Available in packets of 25 and are priced up to 50% less than others

• 4 sizes available

3 x 5mm

Accepts cables up to 3mm high by 5mm wide. Suits the following: WB1706/WB1708 speaker cable & 6 core flat telephone cable.

25 HP0680 \$2.90 \$2.60 \$2.30	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
	25	HP0680	\$2.90	\$2.60	\$2.30

5 x 8mm Expandable

Suits round cables with 5 x 8mm diameter - including 4 core alarm cable, 75Ω thin coax and 50Ω thin coax.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP0682	\$3.50	\$2.90	\$2.60

5 x 7mm

Accepts cable up to 5mm high by 7mm wide. Suits the following: WB1706/WB1708 speaker cable & 6 core flat telephone cable

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP0692	\$3.90	\$3.10	\$2.70

7 x 10mm Expandable

Suitable for round cable 7-10mm diameter - including 6 core alarm cable, air spaced coax and Belden coax.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP0694	\$4.50	\$3.60	\$3.30

'P' Type Cable Clamps

Nvlon



Size	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
For 5mm cable	6	HP0752	\$2.50	\$2.00	\$1.80
For 7mm cable	6	HP0754	\$2.90	\$2.60	\$2.30
For 10mm cable	6	HP0756	\$3.90	\$3.10	\$2.70

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		AC1658 B157	AR1748 B154	BM7108 A138	DC1068 B274	GG2344 B116	GH2028 B7	HB5420 B251	HB6318 A52	HK7742 A216	HM3422 A249
Α		AC1671 B143	AR1760 B192	BM7122 A19	DC1000 B274 DC1073 B274	GG2356 B128	GH2029 B12		HB6323 A52	HK7760 A216	HM3423 A249
AA0223	A118	AC1705 B145	AR1771 B112	BM7132 A139	DC1090 B274	GH1021 B127	GH2030 B9		HB6330 A52	HK7762 A216	HM3424 A249
AA0225	A118	AC1710 B146	AR1780 B154	BM7133 A139	DC1091 B274	GH1031 B127	GH2031 B12		HB6332 A52	HK7764 A216	HM3426 A249
AA0236	A118	AC1711 B145	AR1811 B151	BM7134 A139	DC1101 B273	GH1061 B127	GH2032 B9	HB5430 B252	HB6340 A51	HK7766 A216	HM3428 A249
AA0237	A118	AC1712 B146	AR1812 B151	BM7135 A139	DC1102 B273	GH1071 B115	GH2034 B9		HB6341 A51	HK7770 A216	HM3430 A249
AA0262	A119	AC1715 B157	AR1813 B151	BM7136 A139	DC1103 B273	GH1072 B115	GH2036 B10		HB6355 A52	HK7772 A216	HM3432 A249
AA0262	B21	AC1716 B157	AR1828 B151	BM7137 A139	DC1104 B273	GH1088 B128	GH2038 B10		HB6356 A52	HK7786 A216	HM3433 A249
AA0266	A118	AC1718 B147	AR1866 B151 AR1913 B143	BM7142 A139 BM7144 A138	DC1106 B274	GH1162 B128 GH1163 B128	GH2040 B9		HB6359 B80 HB6360 B17	HK7787 A216	HM3434 A249
AA0266	B87	AC1721 B147 AC1722 B147	AR1913 B143 AR1916 B143	BM7144 A138 BM7146 A138	DC1108 B274 DC1110 B274	GH1163 B128 GH1281 B115	GH2041 B12 GH2042 B9		HB6360 B17 HB6361 A65	HK7788 A216 HM3010 B86	HM3436 A249 HM3438 A249
AA0274 AA0323	A119 A119	AC1723 B157	AR1922 B141	BM7160 A90	DC1110 B274 DC1111 B274	GH1282 B115	GH2043 B12		HB6381 A177	HM3012 B86	HM3440 A249
AA0346	A119	AC1724 B147	AR1924 B141	BM7162 A90	DC1111 B274	GH1285 B116	GH2044 B9		HB6383 A177	HM3015 B86	HM3442 A249
AA0348	B34	AC1726 B143	AR1930 B130	BM7164 A90	DC1113 B274	GH1286 B115	GH2045 B12		HB6385 A177	HM3020 A66	HM3443 A249
AA0361	B66	AC1728 B144	AR1932 B130	BM7166 A111	DC1114 B274	GH1289 B115	GH2046 B6	HB5472 B251	HB6387 A177	HM3022 A66	HM3444 A249
AA0364	A119	AC1752 B144	AR1934 B43	BM7168 A112	DC1115 B274	GH1291 B115	GH2047 B6	HB5556 A181	HB6388 A177	HM3025 A66	HM3446 A249
AA0372	A118	AC1753 B144	AR1936 B43	BM7170 A112	DC1116 B274	GH1294 B115	GH2050 B4		HB6389 A177	HM3036 A66	HM3448 A249
AA0373	A118	AC1757 B257	AR1938 B130	BM7200 A65	DC1117 B274	GH1296 B115	GH2052 B4		HB6404 A177	HM3037 A66	HM3450 A249
AA0374	B235	AC1773 B147	AR1940 B130	BT1347 A195	DC1118 B274	GH1369 B14	GH2054 B4		HB6412 A177	HM3040 A66	HM8100 A46
AA0375	B235	AC1785 B143 AC1790 B156	AR1948 B153 AR1952 B150	BT1381 A139 BT1382 A139	DC1119 B273 DC1122 B276	GH1379 B13 GH1386 B117	GH2055 B4 GH2057 B11		HB6421 A177 HB6423 A177	HM3041 A66 HM3060 B86	HM8102 A46 HM9500 A142
AA0376	A119 B235	AC5000 B146	AR1957 B150	BT1388 A139	DC1125 B276	GH1399 B115	GH2080 B10		HB6425 A177	HM3085 B86	HM9505 A142
AA0376 AA0377	A119	AC5002 B146	AR1963 B150	B11000 A100	DC1132 B273	GH1400 B115	GH2082 B10		HB6431 A179	HM3089 B37	HM9509 A142
AA0378	A119	AC5004 B146	AR1964 B151	С	DC2030 B280	GH1402 B115	GT3018 B128		HB6432 A179	HM3092 B252	HP0140 A265
AA0380	A76	AC5010 B145	AR1974 B151	CF2752 B163	DC2070 B280	GH1403 B115	GT3019 B128	HB6006 A180	HB6433 A179	HM3094 B252	HP0142 A265
AA0405	B164	AC5012 B144	AR1975 B150	CF2763 B163	DC3060 B280	GH1560 B11	GT3023 B128		HB6434 A179	HM3102 A252	HP0146 A265
AA0412	B198	AC5014 B145	AR1976 B151	CL2800 B189	DC3066 B280	GH1580 B116	GT3075 B124		HB8100 B19	HM3103 A252	HP0148 A265
AA0414	B160	AC5020 B144	AR1977 B150	CS2310 B197	DC3073 B279	GH1582 B116	GT3231 B124		HB8102 B19	HM3104 A252	HP0150 A265
AA0416	B199	AC5030 B147 AF1211 B191	AR1978 B150 AR1979 B150	CS2312 B197	DC3074 B278 DC3075 B280	GH1608 B11 GH1611 B5	GT3706 B128 GT3751 A127	HB6011 A178 HB6012 A178	HB8104 B19 HB8106 B19	HM3106 A252 HM3108 A252	HP0160 A265 HP0162 A265
AA0442 AA0472	B199 B158	AF1211 B191	AR1981 B150	CS2314 B197 CS2316 B197	DC3076 B278	GH1613 B11	GT4074 B122		HB8502 B19	HM3112 A252	HP0166 A265
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PA3663	A244 A244	P16462	A199	PP0237	A231	PP0678	A243	PP1453	B270	PP2119	B94	PS0355	A241	PS0795	A240 A240	PS2056	B95	PT0466	A237	PT4517	A253
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PA3664	A244	PI6468	A199	PP0239	A231	PP0680	A247	PP1910	A239	PP2136	B94	PS0359	A241	PS0797	A240	PS2073	B89	PT0472	A236	PT4521	A254
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PA3671	A242	PI6484	A199	PP0300	A241	PP0694	A247	PP1976	B88	PP2149	A257	PS0408	A236	PS0806	A248	PS2096	B90	PT3008	A236	PT4527	A253
PA3672 PA3673		PI6499 PI6500	A199 A199	PP0302 PP0304	A241 A241	PP0695 PP0702	A247 A242	PP1978 PP1980	B88 B55	PP2149 PP2150	B89 A257	PS0420 PS0421	A236 A236	PS0824 PS0825	A248 A248	PS2118 PS2126	B48 B92	PT3012 PT3020	A237 A237	PT4528 PT4529	A253 A253
1 A30/3	7242	1 10300	A133	110304	7241	110/02	7444	11 1300	D00	112100	7201	1 00421	7230	1 50023	A240	1 02 120	DJZ	1 13020	7231	1 1-1020	A233

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PT4530	A253	PT4966 A25	4 ON	11571	A60	QP2320	B20	RC5322	A207	RE6326	A209	RM7055	A206	RP8518	A215	RR0589	A213	RR2512	A213	RR3252	A213
PT4533	A253	PT4967 A25		11578	A60	QP2321	B20	RC5323	A207	RE6328	A209	RM7065		RP8524	A215	RR0590	A213	RR2514	A213	RR3254	A213
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PT4707	A253	QC5522 B21			B239 B237	QV6004	B234	RE6070	A208	RG5153	A206	RN3464	A157	RR0541	A213	RR0634	A213	RR2802	A213	RR3364	A213
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PT4722 PT4723	A253 A253	QC8054 B20	-	17234 17258	A80 A80	QV9093 QV9094	B213 B203	RE6110 RE6122	A208 A208	RG5199 RG5201	A207 A206	RP3514 RP3516	A215 A215	RR0550 RR0551	A213 A213	RR0643 RR0644	A213 A213	RR2820 RR2822	A213 A213	RT4008 RT4010	A214 A214
PT4724	A253	QC8062 B20 QC8071 B20	-	17259	A80	QV9095	B205	RE6125	A208	RG5202	A206	RP3518	A215	RR0552	A213	RR0660	A213	RR2824	A213	RT4014	A214
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PT4727 PT4728	A253 A253	QC8099 B20 QC8100 B20		17312 17313	A69 A77	QV9099 QV9100	B206 B202	RE6150 RE6156	A208 A208	RG5205 RG5210	A206 A206	RP3524 RP3604	A215 A215	RR0555 RR0556	A213 A213	RR1500 RR1502	A213 A213	RR2830 RR2832	A213 A213	RT4020 RT4022	A214 A214
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PT4810	A254	QC8718 A5	3 QN	17410	A67	QV9108	B205	RE6190	A208	RG5238	A206	RP3620	A215	RR0562	A213	RR1514	A213	RR2844	A213	RT4306	A214
PT4814	A254	QC9100 B21	-	17422	A67	QV9808	B216	RE6194	A208	RG5240	A206	RP3622	A215	RR0563	A213	RR1516	A213	RR2846	A213	RT4306	A214
PT4818 PT4822	A254 A254	QC9101 B21 QC9102 B21	-	17430 18046	A67 B237	R		RE6195 RE6210	A208 A208	RG5247 RG5248	A206 A206	RP3624 RP3706	A215 A215	RR0564 RR0565	A213 A213	RR1518 RR1520	A213 A213	RR2848 RR2850	A213 A213	RT4308 RT4310	A214 A214
PT4823	A254	QC9102 B21	-		B237	RC5300	A207	RE6220	A208	RL6402	A209	RP3708	A215	RR0566	A213	RR1522	A213	RR2854	A213	RT4312	A214
PT4825	A254	QC9116 B22	7 QP	2004	B67	RC5301	A207	RE6230	A208	RL6406	A209	RP3710	A215	RR0567	A213	RR1524	A213	RR2858	A213	RT4314	A214
PT4827	A254 A254	QC9120 B21		2006	B67	RC5302	A207	RE6236	A208 A208	RL6408	A209 A209	RP3712	A215 A215	RR0568	A213	RR1650 RR1652	A213 A213	RR2860	A213	RT4316	A214 A214
PT4914 PT4916	A254 A254	QC9121 B21 QC9122 B21		2216 2222	A79 A77	RC5303 RC5304	A207 A207	RE6238 RE6240	A208 A208	RL6410 RL6412	A209 A209	RP3756 RP3760	A215	RR0569 RR0570	A213 A213	RR1654	A213	RR2862 RR2864	A213 A213	RT4318 RT4320	A214 A214
PT4930	A254	QM1020 A6	1 QP	2252	B75	RC5305	A207	RE6241	A208	RL6414	A209	RP3762	A215	RR0571	A213	RR1656	A213	RR2868	A213	RT4324	A214
PT4932	A254	QM1282 A6	8 QP	2253	B75	RC5306	A207	RE6243	A208	RL6418	A209	RP3975	A215	RR0572	A213	RR1658	A213	RR2870	A213	RT4350	A214
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PT4935	A254 A254	QM1284 A6 QM1321 A5		2260	B75	RC5308 RC5309	A207 A207	RE6250	A206 A207	RL6424	A209	RP7508	A215	RR0575	A213	RR1664	A213	RR3208	A213	RT4356	A214 A214
PT4936	A254	QM1323 A5	7 QP	2261	B20	RC5310	A207	RE6300	A209	RL6428	A209	RP7510	A215	RR0576	A213	RR1666	A213	RR3214	A213	RT4358	A214
PT4937	A254	QM1446 A5		2263	B20	RC5311	A207	RE6302	A209	RL6430	A209	RP7516	A215	RR0577	A213	RR1668	A213	RR3220	A213	RT4360	A214
PT4938 PT4939	A254 A254	QM1449 A7 QM1493 A6		2265 2268	A77 A79	RC5312 RC5313	A207 A207	RE6304 RE6306	A209 A209	RL6432 RL6434	A209 A209	RP7518 RP7524	A215 A215	RR0578 RR0579	A213 A213	RR1670 RR1672	A213 A213	RR3230 RR3232	A213 A213	RT4362 RT4364	A214 A214
PT4940	A254	QM1494 A7		2285	A79	RC5314	A207 A207	RE6308	A209	RL6436	A209	RP7604	A215	RR0580	A213	RR1680	A214	RR3234	A213	RT4366	A214
PT4941	A254	QM1500 A5	5 QP	2287	A79	RC5315	A207	RE6310	A209	RM7010	A206	RP7610	A215	RR0581	A213	RR1697	A214	RR3236	A213	RT4368	A214
PT4942 PT4960	A254 A254	QM1517 A5		2288 2299	A80 A70	RC5316	A207	RE6312 RE6314	A209 A209	RM7012 RM7015	A206 A206	RP7616 RP7708	A215 A215	RR0582 RR0583	A213 A213	RR2000 RR2502	A214 A213	RR3238 RR3240	A213 A213	RT4370 RT4372	A214 A214
PT4960 PT4961	A254 A254	QM1527 A5 QM1529 A5			B129	RC5317 RC5318	A207 A207	RE6314	A209 A209	RM7022	A206 A206	RP7712	A215	RR0584	A213 A213	RR2502	A213	RR3240	A213	RT4600	A214 A214
PT4962	A254	QM1549 A5	9 QP	2304	B129	RC5319	A207	RE6318	A209	RM7027	A206	RP7756	A215	RR0585	A213	RR2504	A213	RR3244	A213	RT4602	A214
PT4963	A254	QM1551 A5			B129	RC5320	A207	RE6320	A209	RM7033	A206	RP8504	A215	RR0586	A213	RR2506	A213	RR3246	A213	RT4604 RT4608	A214
PT4964 PT4965	A254 A254	QM1552 A5		2307 2310	B129 A70	RC5321	A207	RE6322 RE6324	A209 A209	RM7039 RM7047	A206 A206	RP8510 RP8516	A215 A215	RR0587 RR0588	A213 A213	RR2508 RR2510	A213 A213	RR3248 RR3250	A213 A213	RT4610	A214 A214
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DT4010	A214	CD1004	D 77	CDAAAC	B82	CF1002	A 1F1	SF2227	A 1F0	CKOOOO	A 1F0	CLOCOA	A 100	SM1052	A1C4	CTOOO	A100	CTOOOO	A 1 F 7	072022	A1F2
RT4612 RT4614	A214 A214	SB1634 SB1645	B77 B77	SB2426 SB2467	B76	SF1992 SF1995	A151 A151	SF2227 SF2228	A150 A150	SK0920 SK0921	A158 A158	SL2694 SL2695	A190 A191	SP0380	A164 A163	ST0300 ST0310	A163 A163	ST3833 ST3836	A157 A157	SZ2032 SZ2034	A153 A152
RT4616	A214	SB1646	B77	SB2468	B77	SF1997	A151	SF2230	A150	SK0922	A158	SL2696	A191	SP0596	A162	ST0335	A163	ST3915	B107	SZ2036	A152
RT4618	A214	SB1648	B77	SB2480	B17	SF1999	A151	SF2231	A150	SK0923	A158	SL2720	A191	SP0600	A167	ST0336	A163	ST3930	B105	SZ2038	A152
RT4620 RT4622	A214 A214	SB1651 SB1653	B77 B77	SB2482 SB2484	B17 B17	SF2100 SF2101	A151 A151	SF2232 SF2233	A150 A150	SK0924 SK0925	A158 A158	SL2722 SL2724	A191 A191	SP0601 SP0602	A167 A167	ST0355 ST0356	A163 A163	ST3932 ST3934	B105 B105	SZ2039 SZ2040	A152 A153
RT4640	A214	SB1654	B77	SB2485	B17	SF2102	A151	SF2234	A150	SK0926	A158	SL2724	A191	SP0603	A167	ST0357	A163	ST3936	B105	SZ2040	A153
RT4642	A214	SB1680	B18	SB2486	B17	SF2103	A151	SF2240	A150	SK0927	A158	SL2735	B101	SP0604	A167	ST0358	A163	ST3938	B105	SZ2043	A153
RT4644	A214	SB1682	B18	SB2487	B17	SF2104	A150	SF2242	A150	SK0928	A158	SL2858	B108	SP0605	A167	ST0365	A163	ST3948	B105	SZ2044	A153
RT4646 RT4648	A214 A214	SB1683 SB1684	B18 B18	SB2489 SB2490	B17 B17	SF2104 SF2105	A150 A150	SF2243 SF2244	B21 B22	SK0929 SK0955	A158 A160	SL2859 SL2866	B108 B108	SP0606 SP0607	A167 A167	ST0505 ST0506	A163 A163	ST3952 ST3954	B114 B114	SZ2045 SZ2046	A153 A153
RT4650	A214	SB1685	B18	SB2495	B17	SF2106	A150	SF2245	B22	SK0960	A160	SL2867	B108	SP0608	A167	ST0546	A163	ST3956	B114	SZ2047	A153
RT4652	A214	SB1686	B18	SB2496	B17	SF2107	A150	SF2247	B22	SK0962	A160	SL2869	B108	SP0609	A167	ST0547	A163	ST3990	B103	SZ2049	A153
RT4654	A214	SB1695	B18	SB2497	B17	SF2108	A150	SF2249	B22 B22	SK0964	A160	SL2895	B188	SP0610	A167	ST0554	A163 A163	ST3992	B103	SZ2060	A151
RT4656 RT4658	A214 A214	SB1698 SB1699	B18 B18	SB2501 SB2502	B81 B81	SF2109 SF2110	A150 A150	SF2250 SF2251	B22	SK0966 SK0967	A160 A160	SL2916 SL2990	B189 B188	SP0611 SP0612	A167 A167	ST0555 ST0570	A163	SY4004 SY4007	A147 A147	SZ2065 SZ2078	A152 A151
RU6600	A208	SB1706	B76	SB2504	B81	SF2112	A150	SF2252	A156	SK0968	A159	SL3145	A50	SP0613	A167	ST0572	A163	SY4008	A147	SZ2081	A155
RU6602	A208	SB1708	B76	SB2508	B81	SF2114	A150	SF2254	A156	SK0969	A159	SL3145	B109	SP0614	A167	ST0574	A164	SY4009	A147	SZ2083	A155
RU6604 RU6606	A208 A208	SB1714 SB1723	B76 B76	SB2510 SB2512	B81 B81	SF2115 SF2115	A150 A150	SF2258 SF2259	A156 A156	SK0970 SK0972	A159 A159	SL3146 SL3150	B188 A50	SP0620 SP0621	A167 A167	ST0575 ST0576	A164 A164	SY4016 SY4018	A146 A146	SZ2085 SZ2090	A155 B33
RU6608	A208	SB1724	B76	SB2513	B81	SF2116	A150	SF2260	A156	SK0975	A159	SL3150	B42	SP0622	A167	ST0577	A164	SY4029	A148	SZ2092	B33
RU6700	A208	SB1728	B76	SB2514	B81	SF2117	A150	SF2261	A156	SK0976	A159	SL3152	B188	SP0656	A161	ST0578	A164	SY4030	A149	SZ2094	B33
RU6705 RU6708	A208 A209	SB1734 SB1736	B76 B76	SB2516 SB2520	B81 B81	SF2118 SF2119	A150 A150	SF2265 SF2266	A155 A155	SK0978 SK0979	A159 A159	SL3208 SL3210	A191 A191	SP0657 SP0662	A161 A161	ST0579 ST0580	A164 A164	SY4032 SY4036	A149 A149	SZ2095 SZ2096	A153 A153
RU6709	A209	SB1737	B76	SB2522	B81	SF2119 SF2120	A150	SF2269	A151	SK0979	A160	SL3210 SL3211	A191	SP0664	A161	ST0580	A164	SY4038	A149	SZ2090 SZ2097	A153
RU6710	A209	SB1738	B76	SB2523	B81	SF2120	A150	SF2272	A151	SK0981	A159	SL3217	A191	SP0665	A161	ST0582	A164	SY4040	A145	SZ2098	A153
RU6712	A209	SB1739	B76	SB2524	B81	SF2121	A150	SF2274	A151	SK0982	A159	SL3238	B226	SP0666	A161	ST0583	A164	SY4041	A145	_	
RU6720 RV5714	A209 A209	SB1744 SB1760	B76 B81	SB2525 SB2526	B81 B81	SF2122 SF2124	A150 A150	SF2276 SF2277	A151 A151	SK0983 SK0984	A159 A159	SL3401 SL3403	B190 B104	SP0669 SP0700	A161 A162	ST0584 ST0585	A164 A164	SY4044 SY4045	A145 A146	T TD2000	V 50
RV5716	A209	SB1762	B81	SB2527	B81	SF2126	A154	SF2278	A151	SK0987	A159	SL3450	B190	SP0702	A162	ST0586	A164	SY4046	A146	TD2000	A39 A45
RV5718	A209	SB1770	B83	SB2529	B81	SF2127	A154	SF2279	A151	SK0991	A159	SL3452	B107	SP0704	A161	ST0587	A164	SY4047	A146	TD2012	A43
RV5720 RV5722	A209 A209	SB1771 SB1774	B83 B83	SB2530 SB2532	B81 B81	SF2128 SF2130	A154 A154	SF2281 SF2283	A156 A156	SK0994 SK0995	A160 A159	SL3454 SL3460	B190 B107	SP0706 SP0710	A161 A162	ST0590 ST0592	A164 A164	SY4050 SY4051	A149 A149	TD2021 TD2022	A44
RV5728	A211	SB1775	B83	SB2534	B81	SF2132	A154	SF2284	A156	SK0997	A159	SL3474	B107	SP0711	A162	ST0594	A163	SY4052	A149	TD2022	A34 A34
RY6802	A207	SB2200	B16	SB2536	B81	SF2134	A154	SF2285	A156	SK0998	A160	SL3476	B107	SP0714	A162	ST3102	B127	SY4053	A149	TD2026	A34
RY6804 RY6805	A207 A207	SB2210 SB2211	B15 B15	SB2537 SB2539	B81 B81	SF2136 SF2137	A154 A154	SF2293 SF2295	A156 A156	SK0998 SK0999	B55 A159	SL3478 SL3490	B107 B96	SP0716 SP0717	A161 A161	ST3130 ST3145	B114 B114	SY4058 SY4059	A148 A148	TD2027	A45
RY6806	A207	SB2211	B15	SB2542	B81	SF2138	A154	SF2297	A156	SL2250	B101	SL3495	B96	SP0718	A161	ST3146	B106	SY4060	A148	TD2032 TD2035	A43 A43
RY6808	A207	SB2213	B15	SB2543	B81	SF2139	A154	SF2300	A156	SL2252	B101	SL3496	B96	SP0720	A167	ST3158	B109	SY4061	A148	TD2038	A43
RY6810	A207	SB2215	B15	SB2544	B81	SF2141	A154	SF2315	A156	SL2254	B101	SL3501	B107	SP0721	A167	ST3193	B107	SY4062	A148	TD2042	A34
RY6816 RY6818	A207 A207	SB2216 SB2217	B15 B15	SB2545 SB2547	B81 B81	SF2142 SF2143	A154 A154	SF2320 SF2321	A155 A155	SL2256 SL2440	B101 A113	SL3503 SL3506	B106 B107	SP0722 SP0723	A167 A167	ST3200 ST3209	B109 B113	SY4064 SY4065	A147 A147	TD2049 TD2052	A34 A48
RY6820	A207	SB2218	B16	SB2550	B82	SF2146	A154	SF2323	A155	SL2440	B104	SL3509	B189	SP0724	A167	ST3210	B113	SY4066	A148	TD2052	A34
RY6825	A207	SB2220	B16	SB2552	B82	SF2148	A150	SF2324	A155	SL2441	A113	SL3511	B107	SP0732	A162	ST3211	B113	SY4067	A148	TD2060	A34
RY6901 RY6902	A208 A208	SB2291 SB2294	B77 B78	SB2610 SB2900	B78 B82	SF2148 SF2152	A150 A150	SF2325 SF2326	A155 A155	SL2441 SL2442	B104 A113	SL3512 SL3513	B106 B189	SP0735 SP0741	A160 A161	ST3213 ST3214	B113 B114	SY4068 SY4069	A146 A146	TD2061 TD2062	A34 A34
RY6903	A208	SB2298	B78	SB2902	B82	SF2153	A150	SF2327	A155	SL2442	B104	SL3514	B106	SP0743	A161	ST3215	B114	SY4070	A146	TD2064	A34
RY6904	A208	SB2299	B78	SB2903	B82	SF2154	A150	SF2330	A155	SL2443	A113	SL3515	B189	SP0745	A161	ST3216	B114	SY4072	A148	TD2065	A34
RY6906 RY6908	A208 A208	SB2300 SB2301	B78 B78	SB2904 SB2906	B82 B82	SF2155 SF2156	A150 A150	SF2331 SF2333	A155 A155	SL2443 SL2444	B104 A113	SL3519 SL3524	B106 B96	SP0747 SP0748	A161 A162	ST3217 ST3218	B114 B109	SY4073 SY4074	A146 A146	TD2069 TD2070	A44 A44
RY6910	A208	SB2305	B78	SB2908	B82	SF2157	A150	SF2334	A155	SL2444	B104	SL3530	B106	SP0749	A161	ST3220	B109	SY4076	A146	TD2070	A80
RY6912	A208	SB2307	B78	SB2910	B82	SF2158	A150	SF2335	A155	SL2446	A113	SL3531	B106	SP0751	A161	ST3230	B112	SY4077	A146	TD2082	A80
RY6914 RY6916	A208 A208	SB2308 SB2313	B78 B78	SB2912 SB2914	B82 B82	SF2159 SF2160	A150 A150	SF2336 SF2337	A155 A155	SL2446 SL2448	B104 A113	SL3540 SL3542	B190 B190	SP0755 SP0756	A162 A161	ST3240 ST3250	B112 B109	SY4078 SY4080	A146 A144	TD2089	A45
RY6918	A208	SB2314	B77	SB2916	B82	SF2161	A150	SF2342	A155	SL2448	B104	SL3925	B97	SP0757	A161	ST3252	B96	SY4081	B97	TD2105 TD2109	A44 A37
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RY6924 RY6928	A208 A208	SB2317 SB2319	B78 B78	SB2930 SB2931	B76 B76	SF2163 SF2164	A150 A150	SF2345 SF2346	A155 A155	SL2612 SL2613	A190 A190	SL3929 SL3931	B97 B96	SP0759 SP0760	A161 A162	ST3278 ST3295	B240 B240	SY4085 SY4086	A145 A145	TD2115	A37
RY6932	A208	SB2320	B82	SB2932	B76	SF2165	A150	SF2352	A155	SL2615	A190	SL3933	B104	SP0764	A162	ST3298	B113	SY4088	A145	TD2117 TD2118	A37 A37
RY6936	A208	SB2321	B82	SB2933	B76	SF2166	A150	SF2354	A155	SL2616	A190	SL3935	B96	SP0766	A162	ST3299	B113	SY4089	A145	TD2120	A47
RY6950	A206 A206	SB2324	B83	SB2934	B269 B76	SF2167 SF2168	A150 A150	SF2355	A155 A155	SL2617 SL2620	A190 A190	SL3937 SL3942	B96 B102	SP0770 SP0773	A168 A162	ST3311	B112 B112	SY4090	A144 A144	TD2121	A37
RY6951 RY6952	A206	SB2325 SB2328	B82 B82	SB2936 SB2938	B76	SF2169	A150	SF2356 SF4100	A155	SL2622	A190	SL3942 SL3948	B98	SP0774	A162	ST3327 ST3329	B112	SY4092 SY4093	A144	TD2122 TD2128	A46 A48
RY6953	A206	SB2329	B82	SB2940	B81	SF2170	A150	SF4102	A155	SL2625	A190	SL3954	B103	SP0786	A162	ST3367	B110	SY4184	B97	TD2132	A19
RY6954 RY6955	A206 A206	SB2331 SB2332	B82 B82	SB2941	B81 B81	SF2170 SF2172	A150 A150	SF4104 SF4106	A155 A155	SL2627 SL2630	A190 A190	SL3975 SL4001	B96	SP0787 SP0788	A161 A161	ST3429 ST3432	B109 B110	SY4200 SY4202	B21 B21	TD2134	A44
RY6956	A206 A206	SB2332 SB2333	B82	SB2942 SB2943	B81	SF2172 SF2173	A150	SF4108	A155	SL2630 SL2632	A190	SL4001 SL4002	B97 B97	SP0788 SP0791	A161	ST3432 ST3436	B110	ST4202 SZ1902	A156	TD2136 TD2138	A44 A37
RY6957	A206	SB2334	B82	SB2944	B81	SF2174	A150	SF5020	A154	SL2633	A190	SL4011	B97	SP0792	A161	ST3446	B188	SZ1903	A156	TD2130	A34
RY6958	A206	SB2346	B82	SB2945	B81	SF2175	A150	SF5022	A154	SL2640	A190	SL4012	B97	SP0793	A161	ST3449	B110	SZ1906	A156	TD2231	A34
RZ6620 RZ6622	A207 A207	SB2352 SB2357	B83 B83	SB2946 SB2956	B81 B81	SF2176 SF2177	A150 A150	SF5026 SF5028	A154 A154	SL2642 SL2644	A190 A190	SL4020 SL4022	B97 B97	SP0796 SP0797	A161 A161	ST3463 ST3470	B111 B109	SZ1907 SZ1923	A156 A158	TD2232 TD2233	A34 A34
RZ6624	A207	SB2372	B83	SB2970	B82	SF2178	A150	SF5030	A154	SL2645	A190	SM1002	A165	SP0798	A161	ST3477	B111	SZ1924	A158	TD2233	A34 A34
RZ6626	A207	SB2375	B83	SB2980	B83	SF2179	A150	SF5034	A154	SL2646	A190	SM1002		SP0800	A161	ST3481	B110	SZ1925	A158	TD2235	A34
RZ6627 RZ6628	A207 A207	SB2387 SB2394	B82 B82	SB2982 SF0920	B83 A160	SF2182 SF2182	A150 A150	SF5035 SF5070	A154 A154	SL2647 SL2650	A190 A190	SM1012 SM1013		SP0802 SP0804	A161 A161	ST3494 ST3497	B109 B111	SZ1926 SZ2002	A157 A153	TD2236	A34
RZ6630	A207	SB2396	B83	SF0922	A160	SF2184	A150	SF5072	A154	SL2652	A190	SM1015		SP0810	A161	ST3498	B111	SZ2002	A255	TD2237 TD2339	A34 A43
RZ6632	A207	SB2397	B83	SF1909	A154	SF2186	A150	SF5074	A154	SL2654	A191	SM1017	A168	SR1210	A168	ST3499	B111	SZ2004	A255	TD2406	A45
RZ6636 RZ6640	A207 A207	SB2400 SB2401	B83 B83	SF1910 SF1912	A154 A154	SF2188 SF2189	A150 A150	SF5076 SF5078	A154 A154	SL2656 SL2658	A191 A191	SM1018 SM1020		SR1212 SR1214	A168 A168	ST3510 ST3522	B110 B111	SZ2005 SZ2012	A151 A255	TD2443	A45
RZ6642	A207 A207	SB2401 SB2402	B83	SF1912 SF1913	A154 A154	SF2189 SF2190	A150 A150	SF5078 SF5080	A154 A154	SL2658 SL2659	A191	SM1024		SR1214 SR1216	A168	ST3522 ST3524	B111	SZ2012 SZ2014	A255 A152	TD2451 TD2455	A41 A41
RZ6645	A207	SB2404	B83	SF1914	A154	SF2192	A150	SF5082	A154	SL2661	B98	SM1027	A165	SR1220	A168	ST3526	B111	SZ2015	A152	TD2459	A41
RZ6648	A207	SB2411	B77	SF1915	A154	SF2194	A150	SF5084	A154	SL2670	A191	SM1029		SR1222	A168	ST3600	B189	SZ2016	A152	TD2461	A141
RZ6650 RZ6655	A207 A207	SB2413 SB2415	B82 B82	SF1916 SF1917	A154 A154	SF2196 SF2198	A150 A150	SF5085 SF5115	A154 A154	SL2671 SL2673	A191 A191	SM1030 SM1031		SR1230 SS0812	A168 A166	ST3800 ST3804	A157 A157	SZ2018 SZ2019	A152 A152	TD2463 TD2468	A45 Δ41
RZ6657	A207	SB2416	B82	SF1970	A151	SF2200	A150	SF5125	A154	SL2674	A191	SM1031		SS0821	A166	ST3808	A157	SZ2020	A152	TD2468 TD2469	A41 A41
RZ6658	A207	SB2417	B82	SF1972	A151	SF2201	A150	SF5130	A154	SL2675	A191	SM1034		SS0823	A166	ST3810	A157	SZ2021	A151	TD2500	A43
RZ6665 RZ6670	A207 A207	SB2418 SB2420	B82 B82	SF1974 SF1976	A151 A151	SF2202 SF2204	A150 A150	SK0800 SK0802	A158 A158	SL2680 SL2681	A191 A191	SM1035 SM1036		SS0826 SS0834	A166 A166	ST3812 ST3814	A157 A157	SZ2022 SZ2023	A152 A152	TD2510	A43
1120070	F1201	SB2421	B82	SF1978	A151	SF2204	A150	SK0804	A158	SL2683	A191	SM1038		SS0852	A166	ST3821	A157	SZ2025	A152	TD2530 TH1603	A43 A25
S		SB2422	B82	SF1980	B33	SF2208	A150	SK0910	A158	SL2684	A191	SM1039	A166	SS0900	A117	ST3823	A157	SZ2028	A152	TH1604	A25
SB1611	B76	SB2423 SB2424	B82 B82	SF1982 SF1984	B33 B33	SF2210 SF2226	A150 A150	SK0912 SK0914	A158 A158	SL2685 SL2690	A191 A191	SM1040 SM1044		SS0902 SS0903	A117 A117	ST3825 ST3826	A157 A157	SZ2029 SZ2030	A152 A152	TH1606	A25
SB1617	B76	SB2425	B82	SF1990	A151	SF2226	A150		A158	SL2692	A185	SM1050		SS0905	A117	ST3831	A157	SZ2030	A153	TH1609	A27

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TH1610	A27	TH1936	A39	TL4423	A9	TS1442	A21	WA7064	B166	WC7680	B267	WH3077	A225	WH5641	A260	WQ7908	B148	XC0366	A73	XC4414	A86
TH1620	A260	TH1939	B250	TL4423	A9	TS1442	A21	WA7066		WC7693	B267	WH3079			A260		B148	XC0300 XC0387	B184	XC4414 XC4416	A108
TH1632	A27	TH1973	A154	TL4425	A10	TS1465	A23		B166	WC7700	B46	WH3080			A260		B148	XC0389	B184	XC4418	A97
TH1730	A257	TH1978	A46	TL4426	A10	TS1466	A23	WA7070		WC7701	B46	WH3082			A260	WQ7922		XC0400	A74	XC4419	A97
TH1730	B89	TH1980	A29	TL4427	A10	TS1468	A23		B166	WC7702	B46	WH3087			A260		A261	XC0412	A73	XC4420	A85
TH1732	A257	TH1982	A29	TL4428	A10	TS1470	A23		B166	WC7703	B46	WH3090	A226		A260		A261	XC0413	A73	XC4421	A85
TH1732	B89	TH1984	A36	TL4429	A10	TS1475	A23	WA7084	B166	WC7704	B46	WH3090	B95	WH5654	A261	WS5511	A261	XC0424	A76	XC4422	A99
TH1738	A39	TH1985	A36	TL4430	A17	TS1476	A23	WA7088	B166	WC7705	B46	WH3091	A226	WH5656	A261	WT5218	A66	XC0430	A76	XC4424	A93
TH1740	A39	TH1986	A36	TL4431	A13	TS1485	A23		B166	WC7706	B46	WH3091	B95		A262	WT5220	A66	XC0432	A74	XC4426	A95
TH1743	A39	TH1987	A29	TL4432	A12	TS1486	A23	WA7091		WC7707	B46	WH3092			A262	WT5316	A66	XC0434	A75	XC4427	A95
TH1752	A36	TH1989	A30	TL4433	A10	TS1502	A29		B165	WC7708	B46	WH3094			A262	WT5320	A66	XC0436	A75	XC4428	A104
TH1754	A36	TH1991	A42	TL4434	A10	TS1503	A29	WA7102		WC7709	B46	WH3121			A262	WT5325	A66	XC0437	A75	XC4430	A86
TH1755	A36	TH1994	A42	TL4435	A10	TS1504	A29		B165	WC7710	B46	WH3121	B33		A262	WT5326	A65	XC0438	A74	XC4431	A86
TH1757 TH1758	A40 A40	TH1995 TH1996	A42 A42	TL4436 TL4437	A10 A10	TS1507 TS1508	A29 A29	WA7122 WA7500	B167	WC7723 WC7724	B46 B46	WH3122 WH3122		WH5672 WH5690	A262 A260	WT5330 WT5333	A66 A66	XC0439 XC3700	A74 A107	XC4434 XC4438	A101 A93
TH1760	A36	TH1997	A42	TL4437	A10	TS1510	A29	WA7502		WC7725	B266	WH3123	B33		A260	WT5334	A65	XC3700 XC3702	A107	XC4440	A97
TH1761	A36	TH1999	A42	TL4439	A10	TS1512	A29	WA7504		WC7726	B266	WH3124		WH5692		WT5338	A66	XC3706	A104	XC4442	A105
TH1762	A47	TH2000	A39	TL4440	A10	TS1514	A21	WB1500		WC7728	B46	WH5510			A260	WV7300	B220	XC3708	A106	XC4444	A105
TH1763	A45	TH2001	A39	TL4441	A10	TS1515	A21	WB1502		WC7731	B46	WH5511			A260	WV7301	B171	XC3710	A100	XC4446	A106
TH1764	A46	TH2002	A39	TL4442	A10	TS1519	A21	WB1504	A228	WC7733	B46	WH5512	A260	WH5695	A260	WV7304	B167	XC3714	A103	XC4448	A93
TH1766	A46	TH2003	A39	TL4443	A10	TS1520	A21	WB1506	A228	WC7743	B47	WH5513	A260	WH5696	A260	WV7306	B167	XC3715	A103	XC4450	A101
TH1768	A40	TH2004	A39	TL4444	A10	TS1532	A24	WB1508		WC7751	B267	WH5514			A262	WV7308	B167	XC3718	A95	XC4454	A98
TH1769	A46	TH2005	A39	TL4445	A10	TS1535	A24	WB1510		WC7753	B267	WH5515			A262		B167	XC3720	A103	XC4456	A94
TH1770	A47	TH2006	A39	TL4446	A10	TS1536	A24	WB1530		WC7754	B267	WH5516			A262		B167	XC3722	A99	XC4458	A114
TH1772	A45	TH2007	A39	TL4447	A10	TS1540	A23	WB1540		WC7755	B267 B47	WH5517		WH6012	B86		B167 B167	XC3724	A95 A102	XC4464 XC4470	A108
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TH1800	A38	TH2014	A49	TL4452	A10	TS1548	A24	WB1565		WC7761	B152	WH5530		WM4516		WV7347	B168	XC3734	A99	XC4488	A97
TH1803	A38	TH2050	A42	TL4453	A10	TS1554	A23	WB1568		WC7762	B267		A260		B168		B168	XC3735	A105	XC4490	A104
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TH1810	A213	TH2200	A42	TL4455	A17	TS1556	A23	WB1578		WC7764	B267	WH5533		WQ7217			B171	XC3738	A98	XC4494	A107
TH1812	A35	TH2202	A42	TL4456	A17	TS1557	A23		A230	WC7767	B152	WH5534			B168		B171	XC3740	A98	XC4496	A100
TH1815	A40	TH2330	A36	TL4457	A17	TS1564	A20	WB1591		WC7769	B42	WH5535			B168		B171	XC3742	A98	XC4499	A101
TH1816	A46	TH2332	A35	TL4458	A17	TS1565	A20	WB1596		WC7770	B46	WH5536			B168		B171	XC3744	A93	XC4502	A96
TH1817 TH1818	A40 A46	TH2334 TH2336	A35 A36	TL4459 TL4460	A17 A17	TS1566 TS1567	A20 A20	WB1598 WB1620		WC7772 WC7774	B46 B46	WH5537 WH5540			B168 B168		B171 B171	XC3746 XC3747	A102 A102	XC4506 XC4508	A100 A96
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TH1824	A40	TH2520	A45	TL4463	A17	TS1584	A22	WB1702		WC7784	B46	WH5543			B168		B171	XC3754	A134	XC4514	A107
TH1827	A40	TH2600	A264	TL4464	A17	TS1585	A22	WB1703		WC7785	B46	WH5544			B168		B171	XC3756	A134	XC4522	A96
TH1828	A37	TH3000	A42	TL4465	A17	TS1586	A22	WB1704	A227	WC7786	B46	WH5545	A260	WQ7230	B168	WV7384	B171	XC3758	A134	XC4524	A105
TH1829	A38	TH3002	A42	TL4466	A17	TS1587	A22	WB1706	A227	WC7787	B46	WH5546	A260	WQ7257	B254	WV7385	B171	XC3780	A106	XC4536	A105
TH1831	A38	TL4070	A16	TL4467	A17	TS1588	A22	WB1708		WC7792	B46	WH5547			B254		B171	XC3782	A106	XC4540	A107
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TH1842	A47	TL4136	A18	TL4473	A17	TS1640	A21	WB1732		WC7902	B46	WH5555			B220		B171	XC3810	A86	XC4604	A107
TH1843	A40	TL4142	A19	TL4474	A17	TS1641	A21	WB1754		WC7906	B46	WH5556		WQ7281	B220		B171	XC3812	A87	XC4605	A94
TH1845	A48	TL4152	A19	TL4475	A17	TS1642	A22	WB1762		WC7909	B46	WH5557			B220		B171	XC3850	A108	XC4606	A140
TH1846	A38	TL4154	A19	TL4477	A17	TS1643	A22	WB2001	A229	WC7910	B46	WH5560	A260	WQ7284	B220	WV7464	B171	XC3852	A105	XC4609	A96
TH1847	A38	TL4155	A19	TL4478	A17	TS1644	A22	WB2002		WC7912	B46	WH5561			B220		B171	XC3856	A107	XC4610	A97
TH1848	A37	TL4156	A19	TL4479	A17	TS1648	A22	WB2004		WC7914	B46	WH5562			B220		B171	XC3890	A97	XC4611	A105
TH1849	A38	TL4216	A12	TL4480	A17	TS1651	A24	WB2005		WC7920	B46	WH5563			A258		B171	XC3892	A97	XC4613	A108
TH1850	A28	TL4217	A12	TL4481	A17	TS1652	A24	WB2009		WC7930	B152	WH5564			B165	WV7905		XC3900	A84	XC4616	A102
TH1851 TH1854	A30 A48	TL4218 TL4221	A12 A19	TM3002 TS1104	A142 A25	TS1660 TS1667	A27 A27	WB2010 WB2010		WC7932 WC7934	B152 B152	WH5565 WH5566		WQ7291 WQ7292		WV7913 WV7915		XC3902 XC3920	A84 A86	XC4617 XC4618	A102 A114
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TH1861	A28	TL4253	A15	TS1113	A25			WB2017		WH3010	A226	WH5572	A260	WQ7296	B165	WW4012	A226	XC4126	B267	XC4636	A98
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TH1863	A28	TL4256	A13	TS1116	A25	WA7006		WB2020		WH3032		WH5574		WQ7301		WW4014		XC4136	B252	XC4667	B263
TH1864	A47	TL4257	A19	TS1117 TS1118	A25	WA7007		WB2022 WB2023		WH3034		WH5575		WQ7302 WQ7303		WW4016		XC4152 XC4286	B263 A84	XC4669 XC4687	B263 B263
TH1867 TH1868	A34 A47	TL4258 TL4260	A14 A16	TS1118 TS1305	A25 A26	WA7008		WB2023 WB2030		WH3035 WH3036		WH5576 WH5577		WQ7310		WW4018 WW4020		XC4286 XC4288	A84 A104	XC4687 XC4689	B263
TH1872	A47	TL4260	A16	TS1305	A26	WA7009 WA7010		WC5100	B46	WH3037		WH5582		WQ7401		WW4020		XC4200 XC4302	B262	XC4009 XC4707	B268
TH1873	A47	TL4262	A16	TS1307	A26	WA7010		WC6010	A65	WH3040		WH5584		WQ7406		WW4024		XC4302	B262	XC4707	B268
TH1874	A47	TL4263	A16	TS1308	A26	WA7013		WC6018		WH3045	A224	WH5585	A261	WQ7407	B149	WW4030	A226	XC4310	B263	XC4731	B268
TH1883	A39	TL4264	A16	TS1310	A26	WA7014		WC6020	A65	WH3046	A224	WH5587	A261	WQ7420		WW4032	A226	XC4324	A112	XC4732	B268
TH1885	A35	TL4265	A16	TS1311	A26	WA7015		WC6024		WH3047		WH5588		WQ7422		WW4040		XC4326	A112	XC4733	B268
TH1887	A35	TL4266	A16	TS1312	A26	WA7016		WC6026		WH3049		WH5590		WQ7427		WW4100		XC4330	A112	XC4734	B268
TH1890	A35	TL4267	A16	TS1313	A26	WA7017		WC6027		WH3050		WH5591		WQ7428		WW4344		XC4332	A112	XC4738	B268
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TH1893 TH1897	A35	TL4270 TL4271	A16	TS1315	A26	WA7020		WC7500				WH5594		WQ7435 WQ7437		VV VV 4340	AZZU	XC4336 XC4380	A112 A103	XC4744 XC4745	B268
TH1898	A40	TL4271	A16	TS1310	A26	WA7022 WA7024		WC7511		WH3056		WH5595		WQ7437		X		XC4380 XC4382	A96	XC4745 XC4746	B268
TH1900	A40	TL4273	A16	TS1321	A26	WA7024 WA7026		WC7513				WH5596		WQ7439			A207	XC4385	A101	XC4747	B268
TH1910	A48	TL4274	A16	TS1322	A26	WA7020		WC7516				WH5597		WQ7440		XC0100	A125	XC4386	A105	XC4748	B268
TH1916	A48	TL4275	A16	TS1323	A26	WA7040		WC7534	B253	WH3062	A224	WH5610	A260	WQ7442	B254	XC0103	B130	XC4388	A94	XC4834	B252
TH1917	A48	TL4276	A16	TS1324	A26	WA7041		WC7535		WH3063		WH5612		WQ7443		XC0117	A77	XC4390	B103	XC4839	B267
TH1922	A35	TL4390	A17	TS1325	A26	WA7042	B165	WC7582		WH3064		WH5620		WQ7444		XC0225	B130	XC4392	A94	XC4847	B252
TH1923	A49	TL4392	A17	TS1328	A26	WA7043			B254	WH3066		WH5622		WQ7460		XC0230	B130	XC4401	A111	XC4867	B156
TH1925	B129	TL4400	A15	TS1352	A21	WA7046			B254	WH3067		WH5624		WQ7462		XC0232	B130	XC4403	A111	XC4884	B267
TH1927 TH1928	A49 A49	TL4401 TL4410	A15 A12	TS1430 TS1432	A23 A23	WA7050		WC7585 WC7586		WH3068 WH3069		WH5626 WH5630		WQ7464 WQ7496		XC0270	B128	XC4404 XC4406	A111 A85	XC4906 XC4925	B257 B252
TH1929	A49	TL4410	A12	TS1434	A23	WA7054 WA7056			B254	WH3070		WH5632		WQ7900		XC0321 XC0322	A69 A69	XC4408	A85	XC4926	B262
TH1932	A49	TL4420	A15	TS1436	A23	WA7058			B253	WH3072		WH5634		WQ7902		XC0322 XC0324	A69	XC4410	A85	XC4927	B252
TH1934	A49	TL4421	Α9	TS1440	A21	WA7062		WC7594		WH3073		WH5636		WQ7904		XC0324	A76	XC4411	A85	XC4931	B255
TH1935	A39	TL4422	A8	TS1441	A21			WC7650	B253	WH3075	A224	WH5640	A260	WQ7906	B148			XC4412	A95	XC4933	B255

															CAIAI	LUGUE		DEIX III	DEV
XC4934	B261	XC9112 A91	YN8200 B25	0 YT6082	B272	ZC4066	A196	ZD0164	A187	ZD0650	B101	ZL3334	A198	ZR1150	A212	ZS5373	A197	ZV1562	A203
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XC5136	B259	YH5466 B127	YN8296 B25 YN8297 B25		A174 A176	ZC4830	A197 A197	ZD0225 ZD0226	A188 A188	ZD1800 ZD1802	A189 A189	ZL3971	A198 A198	ZR1410	A202 A202	ZT2202 ZT2222	A200 A200	ZZ8148 ZZ8149	A194 A194
XC5137 XC5138	B259 B259	YM2706 A115 YM2707 A115	YN8297 B25 YN8298 B25		A176	ZC4832 ZC4834	A197	ZD0226 ZD0230	A188	ZD1802 ZD1810	A189 A189	ZL3972 ZL3974	A198 A198	ZR1411 ZR1412	A202 A202	ZT2225	A200 A205	ZZ8149 ZZ8202	A194 A194
XC5146	B259	YM2712 A115	YN8299 B25	0 YX2510	A176	ZC4835	A197	ZD0232	A188	ZD1824	A189	ZL3976	A198	ZR1413	A202	ZT2227	A200	ZZ8471	A194
XC5171	B261	YM2716 A115	YN8309 B24		A172	ZC4837	A197	ZD0234	A188	ZD1826	A189	ZL3995	A198	ZR1415	A202	ZT2228	A200	ZZ8480	A194
XC5191 XC5211	B261 B261	YM2718 A115	YN8334 B24 YN8336 B24		A175 A175	ZC4840 ZC4842	A197 A197	ZD0240 ZD0242	A186 A186	ZD1850 ZD1855	A189 A189	ZM9012 ZM9050	A127 B30	ZR1416 ZR1418	A202 A202	ZT2230 ZT2231	A200 A200	ZZ8485 ZZ8552	A194 A195
XC5233	B135	YM2748 A116 YM2754 A115	YN8337 B24		A176	ZC4844	A197	ZD0242	A186	ZD1856	A189	ZM9051	B30	ZR1420	A202	ZT2235	A200	ZZ8600	A195
XC5234	B132	YM2756 A115	YN8358 B24		A172	ZC4846	A197	ZD0245	A186	ZD1857	A189	ZM9052	B30	ZR1422	A202	ZT2236	A200	ZZ8700	A195
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XC5642	B268	YN8015 A245	YN8397 B24		A175	ZC4864	A197	ZD0270	A188	ZD1928	A193	ZM9178	B31	ZR1480	A202	ZT2283	A201	ZZ8770	A195
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XC5682	B265	YN8022 A245	YN8410 B24		A173	ZC4870	A197	ZD0292	A187	ZD1945	A191	ZM9301	B31	ZS5004	A197	ZT2287	A200	ZZ8950	B229
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XC6010	B141	YN8032 B271	YS5539 B11	B ZC4013	A196	ZD0060	A188	ZD0395	B98	ZK8824	A194	ZR1015	A202	ZS5085	A197	ZT2324	A200		
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